Table 8

LEADING CAUSES OF DEATH BY SEX AND AGE GROUPS
Wisconsin, 1981

P. 1 of 5 pages (Resident Data)

Cause of Death	I.C.D.	Number of Deaths	Percent of deaths in this category*	1981 Rate**
All Ages - Total				
Total, all causes		40,495***	100.0	855.2
Diseases of the heart	391-398,402,404,410-414,420-429	16,297	40.2	344.2
Cancer	140-208	8,802	21.7	185.9
Cerebrovascular disease	430-438	3,437	8.5	72.6
Accidents	800-949	1,751	4.3	37.0
Pneumonia and influenza	480-487	1,203	3.0	25.4
Diabetes mellitus	250	740	1.8	15.6
Atherosclerosis	440	650	1.6	13.7
Suicide	950-959	584	1.4	12.3
Cirrhosis of liver	571	488	1.2	10.3
Other arterial disease	441-448	464	1.1	9.8
All Ages - Males				
Total, all causes		21,737	100.0	937.3
Diseases of the heart	391-398,402,404,410-414,420-429	8,677	39.9	374.2
Cancer	140-208	4,760	21.9	205.3
Cerebrovascular disease	430-438	1,469	6.8	63.3
Accidents	800-949	1,217	5.6	52.5
Pneumonia and influenza	480-487	626	2.9	27.0
Suicide	950-959	436	2.0	18.8
Diabetes mellitus	250	328	1.5	14.1
Cirrhosis of liver	571	320	1.5	13.8
Other arterial disease	441-448	283	1.3	12.2
Atherosclerosis	440	268	1.2	11.6
All Ages - Females				
Total, all causes		18,757***	100.0	776.4
Diseases of the heart	391-398,402,404,410-414,420-429	7,620	40.6	315.4
Cancer	140-208	4,042	21.5	167.3
Cerebrovascular disease	430-438	1,968	10.5	81.5
Pneumonia and influenza	480-487	577	3.1	23.9
Accidents	800-949	534	2.8	22.1
Diabetes mellitus	250	412	2.2	17.1
Atherosclerosis	440	382	2.0	15.8
Other arterial disease	441-448	181	1.0	7.5
Cirrhosis of liver	571	168	0.9	7.0
Conditions of perinatal period	760-779	148	0.8	6.1
Suicide	950-959	148	0.8	6.1

*Percents are not calculated when a unit is less than 100 (in each age group) because they give an exaggerated impression of the numbers involved.

**Rates per 100,000 population. Rates based on fewer than 20 deaths are omitted because they are subject to large random fluctuations. The number "20" is arbitrary and is not set forth as a critical point distinguishing statistically reliable rates.

***One, sex unknown, included in grand total and two, age unknown, included in total female category.

Table 8 (Cont.)

LEADING CAUSES OF DEATH BY SEX AND AGE GROUPS
Wisconsin, 1981

P. 2 of 5 pages (Resident Data)

Cause of Death	I.C.D.	Number of Deaths	Percent of deaths in this category*	1981 Rate**
Under 1 year - Males				
All causes		450	100.0	1153.8
Other perinatal conditions	760-766, 770-779	141	31.3	361.5
Birth trauma--asphyxia and respiratory	767-769	87	19.3	223.1
Congenital anomalies	740-759	80	17.8	205.1
Symptoms, signs and ill-defined	780-799	71	15.8	182.1
Under 1 year - Females				
All causes		317	100.0	856.8
Other perinatal conditions	760-766, 770-779	97	30.6	262.2
Congenital anomalies	740-759	84	26.5	227.0
Birth trauma--asphyxia and respiratory	767-769	50	15.8	135.1
Symptoms, signs and ill-defined	780-799	46	14.5	124.3
1-4 years - Males				
All causes		81		53.6
Accidents	800-949	35		23.2
Cancer	140-208	6		
Congenital anomalies	740-759	4		
1-4 years - Females				
All causes		68		47.6
Accidents	800-949	19		
Congenital anomalies	740-759	11		
Cancer	140-208	3		
5-9 years - Males				
All causes		52		30.1
Accidents	800-949	20		11.6
Cancer	140-208	15		
5-9 years - Females				
All causes		32		19.4
Accidents	800-949	15		
Cancer	140-208	5		
10-14 years - Males				
All causes		67		33.7
Accidents	800-949	34		17.1
Cancer	140-208	13		
10-14 years - Females				
All causes		34		17.9
Accidents	800-949	14		

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**Rates per 100,000 population. Rates based on fewer than 20 deaths are omitted because they are subject to large random fluctuations. The number "20" is arbitrary and is not set forth as a critical point distinguishing statistically reliable rates.

Table 8 (Cont.)

LEADING CAUSES OF DEATH BY SEX AND AGE GROUPS
Wisconsin, 1981

P. 3 of 5 pages (Resident Data)

Cause of Death	I.C.D.	Number of Deaths	Percent of deaths in this category*	1981 Rate**
15-24 years - Males				
All causes		643	100.0	142.3
Accidents	800-949	391	60.8	86.5
Suicide	950-959	108	16.8	23.9
Cancer	140-208	34	5.3	7.5
Homicide and legal intervention	960-978	25	3.9	5.5
Diseases of the heart	391-398,402,404,410-414,420-429	14	2.2	
15-24 years - Females				
All causes		199	100.0	44.3
Accidents	800-949	102	51.3	22.7
Cancer	140-208	20	10.1	4.5
Suicide	950-959	17	8.5	
Homicide and legal intervention	960-978	14	7.0	
Congenital anomalies	740-759	8	4.0	
25-34 years - Males				
All causes		526	100.0	134.9
Accidents	800-949	221	42.0	56.7
Suicide	950-959	103	19.6	26.4
Cancer	140-208	49	9.3	12.6
Homicide and legal intervention	960-978	38	7.2	9.7
Diseases of the heart	391-398,402,404,410-414,420-429	22	4.2	5.6
25-34 years - Females				
All causes		224	100.0	58.0
Accidents	800-949	64	28.6	16.6
Cancer	140-208	42	18.8	10.9
Suicide	950-959	29	12.9	7.5
Diseases of the heart	391-398,402,404,410-414,420-429	19	8.5	
35-44 years - Males				
All causes		499	100.0	198.0
Diseases of the heart	391-398,402,404,410-414,420-429	123	24.6	48.8
Accidents	800-949	97	19.4	38.5
Cancer	140-208	85	17.0	33.7
Suicide	950-959	54	10.8	21.4
Cirrhosis of liver	571	20	4.0	7.9
Homicide and legal intervention	960-978	18	3.6	
Cerebrovascular disease	430-438	16	3.2	
35-44 years - Females				
All causes		333	100.0	130.1
Cancer	140-208	114	34.2	44.5
Diseases of the heart	391-398,402,404,410-414,420-429	49	14.7	19.1
Accidents	800-949	39	11.7	15.2
Suicide	950-959	35	10.5	13.7
Cerebrovascular disease	430-438	18	5.4	
Cirrhosis of liver	571	11	3.3	

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**Rates per 100,000 population. Rates based on fewer than 20 deaths are omitted because they are subject to large random fluctuations. The number "20" is arbitrary and is not set forth as a critical point distinguishing statistically reliable rates.

Table 8 (Cont.)

LEADING CAUSES OF DEATH BY SEX AND AGE GROUPS
Wisconsin, 1981

P. 4 of 5 pages (Resident Data)

Cause of Death	I.C.D.	Number of Deaths	Percent of deaths in this category*	1981 Rate**
45-54 years - Males				
All causes		1,327	100.0	620.1
Diseases of the heart	391-398,402,404,410-414,420-429	483	36.4	225.7
Cancer	140-208	354	26.7	165.4
Accidents	800-949	96	7.2	44.9
Cirrhosis of liver	571	64	4.8	29.9
Suicide	950-959	47	3.5	22.0
45-54 years - Females				
All causes		799	100.0	363.2
Cancer	140-208	375	46.9	170.5
Diseases of the heart	391-398,402,404,410-414,420-429	152	19.0	69.1
Cirrhosis of liver	571	42	5.3	19.1
Cerebrovascular disease	430-438	37	4.6	16.8
Accidents	800-949	27	3.4	12.3
55-64 years - Males				
All causes		3,293	100.0	1568.1
Diseases of the heart	391-398,402,404,410-414,420-429	1,315	39.9	626.2
Cancer	140-208	1,031	31.3	491.0
Cerebrovascular disease	430-438	137	4.2	65.2
Cirrhosis of liver	571	114	3.5	54.3
Accidents	800-949	89	2.7	42.4
55-64 years - Females				
All causes		1,815	100.0	782.3
Cancer	140-208	766	42.2	330.2
Diseases of the heart	391-398,402,404,410-414,420-429	519	28.6	223.7
Cerebrovascular disease	430-438	100	5.5	43.1
Diabetes mellitus	250	58	3.2	25.0
Cirrhosis of liver	571	39	2.1	16.8
65-69 years - Males				
All causes		2,534	100.0	2981.2
Diseases of the heart	391-398,402,404,410-414,420-429	1,101	43.4	1295.3
Cancer	140-208	712	28.1	837.6
Cerebrovascular disease	430-438	152	6.0	178.8
Accidents	800-949	52	2.1	61.2
Cirrhosis of liver	571	50	2.0	58.8
65-69 years - Females				
All causes		1,603	100.0	1587.1
Diseases of the heart	391-398,402,404,410-414,420-429	568	35.4	562.4
Cancer	140-208	553	34.5	547.5
Cerebrovascular disease	430-438	118	7.4	116.8
Diabetes mellitus	250	44	2.7	43.6
Cirrhosis of liver	571	27	1.7	26.7
70-74 years - Males				
All causes		2,933	100.0	4582.8
Diseases of the heart	391-398,402,404,410-414,420-429	1,309	44.6	2045.3
Cancer	140-208	749	25.5	1170.3
Cerebrovascular disease	430-438	197	6.7	307.8
Pneumonia and influenza	480-487	62	2.1	96.9
Other arterial disease	441-448	51	1.7	79.7

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Table 8 (Cont.)

LEADING CAUSES OF DEATH BY SEX AND AGE GROUPS
Wisconsin, 1981

P. 5 of 5 pages (Resident Data)

Cause of Death	I.C.D.	Number of Deaths	Percent of deaths in this category*	1981 Rate**
70-74 years - Females				
All causes		2,036	100.0	2423.8
Diseases of the heart	391-398,402,404,410-414,420-429	845	41.5	1006.0
Cancer	140-208	580	28.5	690.5
Cerebrovascular disease	430-438	177	8.7	210.7
Diabetes mellitus	250	62	3.0	73.8
Pneumonia and influenza	480-487	39	1.9	46.4
75-79 years - Males				
All causes		3,189	100.0	7086.7
Diseases of the heart	391-398,402,404,410-414,420-429	1,447	45.4	3215.6
Cancer	140-208	712	22.3	1582.2
Cerebrovascular disease	430-438	277	8.7	615.6
Pneumonia and influenza	480-487	97	3.0	215.6
Other arterial disease	441-448	61	1.9	135.6
75-79 years - Females				
All causes		2,513	100.0	3750.7
Diseases of the heart	391-398,402,404,410-414,420-429	1,141	45.4	1703.0
Cancer	140-208	550	21.9	820.9
Cerebrovascular disease	430-438	279	11.1	416.4
Diabetes mellitus	250	73	2.9	109.0
Pneumonia and influenza	480-487	62	2.5	92.5
80-84 years - Males				
All causes		2,787	100.0	10719.2
Diseases of the heart	391-398,402,404,410-414,420-429	1,281	46.0	4926.9
Cancer	140-208	520	18.7	2000.0
Cerebrovascular disease	430-438	296	10.6	1138.5
Pneumonia and influenza	480-487	119	4.3	457.7
Atherosclerosis	440	54	1.9	207.7
Diabetes mellitus	250	53	1.9	203.8
80-84 years - Females				
All causes		3,119	100.0	6780.4
Diseases of the heart	391-398,402,404,410-414,420-429	1,452	46.6	3156.5
Cancer	140-208	487	15.6	1058.7
Cerebrovascular disease	430-438	422	13.5	917.4
Pneumonia and influenza	480-487	119	3.8	258.7
Diabetes mellitus	250	67	2.1	145.7
Atherosclerosis	440	66	2.1	143.5
85 years and over - Males				
All causes		3,356	100.0	17663.2
Diseases of the heart	391-398,402,404,410-414,420-429	1,569	46.8	8257.9
Cancer	140-208	479	14.3	2521.1
Cerebrovascular disease	430-438	334	10.0	1757.9
Pneumonia and influenza	480-487	209	6.2	1100.0
Atherosclerosis	440	121	3.6	636.8
Accidents	800-949	53	1.6	278.9
85 years and over - Females				
All causes		5,663	100.0	14157.5
Diseases of the heart	391-398,402,404,410-414,420-429	2,854	50.4	7135.0
Cerebrovascular disease	430-438	805	14.2	2012.5
Cancer	140-208	544	9.6	1360.0
Pneumonia and influenza	480-487	287	5.1	717.5
Atherosclerosis	440	241	4.3	602.5
Accidents	800-949	87	1.5	217.5

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**Rates per 100,000 population. Rates based on fewer than 20 deaths are omitted because they are subject to large random fluctuations. The number "20" is arbitrary and is not set forth as a critical point distinguishing statistically reliable rates.

Table 9

LIVE BIRTHS BY COUNTY
Wisconsin, 1972-1976 and 1977-1981

(Resident Data)

County	1972	1973	1974	1975	1976	Five year average 1972-1976	Five year rate	1977	1978	1979	1980	1981	Five year average 1977-1981	Five year rate
Total.....	64,719	62,796	65,150*	65,145	65,042	64,570	14.2	68,548	68,573*	73,209*	74,763*	74,309	71,880	15.4
Adams.....	131	142	128	145	140	137	12.8	127	163	162	179	177	162	13.3
Ashland.....	242	206	211	216	228	221	13.5	247	268	243	279	302	268	16.0
Barron.....	498	474	473	504	529	495	13.7	578	593	656	654	693	635	16.7
Bayfield.....	141	134	153	150	174	150	12.5	182	175	198	219	212	197	14.8
Brown.....	2,524	2,424	2,645	2,600	2,622	2,563	15.3	2,715	2,624	2,790	2,802	2,824	2,751	15.6
Buffalo.....	179	188	197	162	203	186	13.4	217	217	232	236	197	220	15.0
Burnett.....	125	128	118	133	157	132	12.6	151	154	215	167	203	178	15.3
Calumet.....	472	447	484	445	453	460	16.2	489	462	485	546	519	500	17.1
Chippewa.....	771	776	746	734	780	761	15.7	797	825	882	903	924	866	17.3
Clark.....	429	432	497	508	478	469	15.0	547	536	542	641	581	570	17.8
Columbia.....	547	555	584	566	549	560	13.3	590	637	623	667	668	637	15.1
Crawford.....	235	219	228	229	229	228	14.7	268	246	255	293	284	269	16.6
Dane.....	4,146	3,871	3,970	3,963	3,912	3,972	13.1	4,242	4,183	4,469	4,685	4,638	4,443	13.9
Dodge.....	1,002	970	1,034	1,034	1,015	1,011	14.2	1,112	1,107	1,110	1,186	1,173	1,138	15.5
Door.....	273	281	298	334	332	304	13.8	411	374	409	412	397	401	16.3
Douglas.....	725	594	650	627	689	657	14.8	606	657	688	702	713	673	15.3
Dunn.....	448	380	433	396	420	415	13.6	460	466	510	537	536	502	14.7
Eau Claire.....	1,014	944	972	935	959	965	13.6	1,039	1,062	1,083	1,117	1,265	1,113	14.7
Florence.....	46	46	43	31	47	43	12.4	63	36	69	55	64	57	14.6
Fond du Lac.....	1,258	1,279	1,308	1,258	1,311	1,283	14.8	1,413	1,361	1,461	1,512	1,460	1,441	16.2
Forest.....	129	124	122	108	127	122	14.4	141	150	131	140	161	145	16.7
Grant.....	741	738	748	781	821	766	15.6	839	791	867	867	814	836	16.5
Green.....	412	406	426	447	440	426	15.1	425	428	456	483	471	453	15.5
Green Lake.....	240	250	224	251	263	246	14.4	218	248	306	262	325	272	15.2
Iowa.....	294	256	282	295	291	284	14.9	325	268	356	345	342	327	17.0
Iron.....	72	80	72	78	78	76	11.3	84	66	70	84	72	75	11.9
Jackson.....	232	221	226	208	216	221	14.1	284	273	291	276	271	279	16.8
Jefferson.....	904	839	964	909	885	900	14.3	948	918	1,034	973	1,029	980	15.1
Juneau.....	304	264	288	272	278	281	14.8	328	333	379	347	355	348	17.0
Kenosha.....	1,752	1,662	1,750	1,766	1,679	1,722	14.2	1,767	1,711	1,796	1,826	1,815	1,783	14.5
Kewaunee.....	283	267	308	271	299	286	14.5	282	330	327	323	347	322	15.9
La Crosse.....	1,115	1,094	1,110	1,121	1,119	1,112	13.3	1,195	1,250	1,318	1,350	1,396	1,302	14.1
Lafayette.....	236	251	278	267	303	267	15.1	291	302	289	289	339	302	17.2
Langlade.....	271	257	276	290	273	273	14.3	305	308	301	287	313	303	15.2
Lincoln.....	371	373	342	320	311	343	13.6	396	367	423	406	406	400	15.6
Manitowoc.....	1,077	1,134	1,108	1,138	1,209	1,133	13.8	1,195	1,232	1,290	1,338	1,262	1,263	15.1
Marathon.....	1,471	1,550	1,688	1,618	1,675	1,600	15.6	1,752	1,707	1,934	1,930	1,806	1,826	16.7

*One live birth in each of the following years: 1974, 1978, 1979 and 1980, counties unknown, included in totals.

Rates per 1,000 population.

Table 9 (Cont.)

LIVE BIRTHS BY COUNTY
Wisconsin, 1972-1976 and 1977-1981

(Resident Data)

County	1972	1973	1974	1975	1976	Five year average 1972-1976	Five year rate	1977	1978	1979	1980	1981	Five year average 1977-1981	Five year rate
Marinette.....	450	449	470	501	500	474	12.9	571	599	580	662	671	617	15.7
Marquette.....	134	107	141	152	124	132	13.3	168	154	172	167	163	165	14.9
Menominee.....	70	72	56	64	76	68	24.9	83	96	99	111	96	97	28.5
Milwaukee.....	15,538	14,862	14,893	14,891	14,450	14,927	14.4	14,898	14,555	15,680	15,842	15,806	15,356	15.8
Monroe.....	482	451	467	482	481	473	14.6	491	503	555	607	582	548	16.0
Oconto.....	391	356	378	413	428	393	14.7	410	460	446	469	435	444	15.7
Oneida.....	342	322	337	384	378	353	13.0	396	379	444	423	467	422	14.3
Outagamie.....	1,737	1,733	1,950	2,009	1,942	1,874	15.3	2,058	2,070	2,268	2,340	2,229	2,193	16.9
Ozaukee.....	810	727	818	843	820	804	13.0	978	898	936	992	963	953	13.6
Pepin.....	97	100	98	111	109	103	13.9	108	119	157	128	127	128	16.2
Pierce.....	471	438	434	428	429	440	15.4	452	452	504	507	527	488	16.1
Polk.....	410	415	443	458	430	431	14.7	434	496	499	506	561	499	15.8
Portage.....	703	752	763	764	781	753	14.7	831	926	841	928	891	883	15.9
Price.....	220	211	215	206	215	213	13.9	227	218	247	242	232	233	14.7
Racine.....	2,473	2,376	2,633	2,587	2,563	2,526	14.5	2,620	2,697	2,857	2,980	2,855	2,802	15.8
Richland.....	221	222	227	267	210	229	14.0	257	274	270	275	302	276	16.4
Rock.....	2,014	1,977	2,050	1,964	2,003	2,002	15.0	2,005	2,109	2,222	2,256	2,115	2,141	16.0
Rusk.....	212	195	228	221	251	221	15.2	239	230	251	222	251	239	15.7
St. Croix.....	586	587	636	639	632	616	16.4	700	739	741	835	773	758	18.2
Sauk.....	624	572	621	625	597	608	15.3	606	603	692	654	696	650	16.1
Sawyer.....	144	148	157	158	161	154	14.1	157	175	182	219	239	194	15.9
Shawano.....	509	478	495	475	438	479	14.0	478	516	549	528	543	523	14.7
Sheboygan.....	1,373	1,452	1,481	1,436	1,502	1,449	14.5	1,505	1,406	1,559	1,588	1,595	1,531	15.3
Taylor.....	282	259	289	293	308	286	16.1	321	332	357	379	339	346	17.7
Trempealeau.....	356	339	351	347	338	346	14.7	357	364	384	373	416	379	15.4
Vernon.....	347	331	335	291	345	330	13.1	340	336	384	408	440	382	15.0
Vilas.....	137	178	143	139	156	151	11.7	190	172	200	228	218	202	13.3
Walworth.....	812	829	784	804	853	816	12.7	991	969	944	1,026	971	980	14.3
Washburn.....	150	164	146	190	170	164	13.9	195	180	222	226	202	205	15.5
Washington.....	1,026	1,175	1,195	1,197	1,226	1,164	15.8	1,318	1,342	1,428	1,442	1,422	1,390	16.2
Waukesha.....	2,953	2,965	3,100	3,250	3,232	3,100	12.6	3,507	3,596	3,841	3,841	3,824	3,721	12.9
Waupaca.....	523	568	524	568	551	547	13.7	598	683	673	697	690	668	15.5
Waushara.....	208	211	188	235	223	213	13.5	263	208	276	243	236	245	14.4
Winnebago.....	1,784	1,576	1,730	1,681	1,627	1,680	13.0	1,650	1,754	1,882	1,901	1,867	1,810	13.7
Wood.....	1,020	943	989	962	999	983	14.7	1,117	1,134	1,216	1,199	1,211	1,175	16.5

Table 9 (Cont.)

DEATHS BY COUNTY
Wisconsin, 1972-1976 and 1977-1981

(Resident Data)

County	1972	1973	1974	1975	1976	Five year average 1972-1976	Five year rate	1977	1978	1979	1980	1981	Five year average 1977-1981	Five year rate
Total.....	42,074	41,293	40,811*	39,916*	40,191*	40,857	9.0	39,325	40,285	39,145*	40,801	40,495	40,010	8.5
Adams.....	149	123	144	154	154	145	13.6	134	134	157	136	137	140	11.5
Ashland.....	212	205	240	213	248	224	13.7	228	193	212	219	207	212	12.7
Barron.....	450	453	416	394	394	421	11.6	383	406	403	411	426	406	10.7
Bayfield.....	161	161	168	138	146	155	12.9	165	160	152	146	158	156	11.7
Brown.....	1,192	1,176	1,142	1,112	1,236	1,172	7.0	1,129	1,188	1,122	1,181	1,287	1,181	6.7
Buffalo.....	149	149	124	147	158	145	10.4	146	132	144	129	138	138	9.4
Burnett.....	153	142	165	148	132	148	14.2	128	143	120	168	149	142	12.2
Calumet.....	226	210	226	180	193	207	7.3	210	205	219	205	214	211	7.2
Chippewa.....	433	393	437	437	451	430	8.9	448	443	436	456	486	454	9.1
Clark.....	359	333	339	309	328	334	10.7	317	362	285	316	325	321	10.0
Columbia.....	470	452	494	443	459	464	11.0	423	424	446	436	421	430	10.2
Crawford.....	176	156	170	183	169	171	11.1	163	156	159	167	176	164	10.1
Dane.....	1,837	1,912	1,894	1,825	1,872	1,868	6.2	1,788	1,943	1,785	1,928	2,000	1,889	5.9
Dodge.....	699	693	704	676	668	688	9.7	679	705	640	678	718	684	9.3
Door.....	263	285	255	254	230	257	11.6	272	256	254	262	246	258	10.5
Douglas.....	595	513	538	490	523	532	12.0	423	502	504	457	454	468	10.6
Dunn.....	291	284	269	279	293	283	9.3	226	278	250	240	248	248	7.3
Eau Claire.....	620	562	599	607	600	598	8.4	620	598	569	646	626	612	8.1
Florence.....	39	41	45	42	54	44	12.6	48	48	42	52	49	48	12.3
Fond du Lac.....	869	823	815	786	769	812	9.4	791	782	797	824	771	793	8.9
Forest.....	111	87	83	96	92	94	11.1	115	114	109	104	123	113	13.0
Grant.....	470	466	459	425	490	462	9.4	469	492	440	454	479	467	9.2
Green.....	329	307	311	284	282	303	10.7	309	314	282	311	299	303	10.4
Green Lake.....	213	209	211	205	190	206	12.0	231	227	217	208	215	220	12.3
Iowa.....	246	222	211	205	222	221	11.6	201	215	174	204	221	203	10.6
Iron.....	73	85	98	86	100	88	13.1	101	96	84	93	90	93	14.8
Jackson.....	181	191	193	173	164	180	11.5	206	202	163	179	166	183	11.0
Jefferson.....	552	594	539	558	585	566	9.0	574	607	535	605	502	565	8.7
Juneau.....	252	265	224	218	224	237	12.5	202	220	235	221	247	225	11.0
Kenosha.....	970	1,055	1,025	1,002	1,008	1,012	8.3	1,008	964	1,007	1,093	1,021	1,019	8.3
Kewaunee.....	207	219	174	169	173	188	9.5	205	180	165	166	192	182	9.0
La Crosse.....	785	752	775	739	745	759	9.1	749	799	780	768	747	769	8.3
Lafayette.....	196	205	171	163	173	182	10.3	156	158	163	139	206	164	9.3
Langlade.....	252	213	212	208	184	214	11.2	201	239	207	207	239	219	11.0
Lincoln.....	307	286	303	255	265	283	11.2	280	264	252	284	293	275	10.7
Manitowoc.....	822	812	812	755	737	788	9.6	704	748	719	779	750	740	8.9
Marathon.....	844	904	831	752	801	826	8.0	786	834	815	853	769	811	7.4

*Two deaths in 1974, 5 in 1975, 1 in 1976, and 3 in 1979, counties unknown, included in totals.

Table 9 (Cont.)

DEATHS BY COUNTY
Wisconsin, 1972-1976 and 1977-1981

(Resident Data)

County	1972	1973	1974	1975	1976	Five year average 1972-1976	Five year rate	1977	1978	1979	1980	1981	Five year average 1977-1981	Five year rate
Marinette.....	452	452	416	476	443	448	12.2	450	465	449	446	473	457	11.6
Marquette.....	118	141	127	136	126	130	13.1	128	157	128	134	135	136	12.3
Menominee.....	33	20	30	22	30	27	9.9	31	33	30	36	38	34	10.0
Milwaukee.....	10,294	10,081	9,838	9,524	9,436	9,835	9.5	9,045	9,088	8,857	9,278	8,980	9,050	9.3
Monroe.....	367	322	318	345	310	332	10.3	324	325	333	339	351	334	9.8
Oconto.....	305	330	305	288	320	310	11.6	325	290	320	300	333	314	11.1
Oneida.....	313	291	304	277	290	295	10.8	312	285	270	316	293	295	10.0
Outagamie.....	902	836	942	837	884	880	7.2	924	844	854	895	945	892	6.9
Ozaukee.....	367	385	405	387	371	383	6.2	391	419	406	437	421	415	5.9
Pepin.....	78	85	74	83	72	78	10.5	75	90	70	107	91	87	11.0
Pierce.....	246	236	255	239	249	245	8.6	231	204	187	234	227	217	7.2
Polk.....	290	330	307	339	330	319	10.9	320	343	328	319	339	330	10.4
Portage.....	360	387	363	375	390	375	7.3	375	378	347	360	398	372	6.7
Price.....	205	172	220	209	183	198	12.9	151	214	196	211	198	194	12.2
Racine.....	1,396	1,376	1,380	1,366	1,373	1,378	7.9	1,343	1,387	1,379	1,393	1,390	1,378	7.8
Richland.....	191	197	164	211	169	186	11.4	156	181	167	184	172	172	10.2
Rock.....	1,258	1,199	1,163	1,195	1,185	1,200	9.0	1,097	1,174	1,119	1,205	1,136	1,146	8.5
Rusk.....	169	153	165	192	150	166	11.4	140	165	162	135	154	151	9.9
St. Croix.....	304	313	303	292	343	311	8.3	328	324	343	303	317	323	7.7
Sauk.....	454	419	418	430	404	425	10.7	438	409	387	433	442	421	10.4
Sawyer.....	158	167	139	152	151	153	14.0	141	146	144	155	166	150	12.3
Shawano.....	389	369	391	361	403	383	11.2	396	401	377	414	395	396	11.1
Sheboygan.....	961	978	991	980	929	968	9.7	948	906	929	954	896	926	9.2
Taylor.....	172	162	165	168	162	166	9.3	175	179	186	159	186	177	9.0
Trempealeau.....	326	263	290	277	303	292	12.4	306	313	291	314	296	304	12.4
Vernon.....	305	351	308	307	265	307	12.2	325	278	313	325	288	305	12.0
Vilas.....	155	143	171	164	161	159	12.3	183	198	177	204	185	189	12.4
Walworth.....	724	655	616	666	651	662	10.3	600	612	634	626	623	619	9.0
Washburn.....	159	134	150	150	156	150	12.7	157	153	147	136	123	143	10.8
Washington.....	498	549	504	467	508	505	6.9	548	563	542	562	531	549	6.4
Waukesha.....	1,557	1,512	1,485	1,500	1,586	1,528	6.2	1,480	1,646	1,665	1,648	1,681	1,624	5.6
Waupaca.....	494	483	516	525	545	513	12.9	483	569	567	618	619	571	13.2
Waushara.....	193	240	200	214	191	208	13.2	195	210	195	214	201	203	11.9
Winnebago.....	1,152	1,090	1,048	1,110	1,042	1,088	8.4	1,076	1,080	1,061	1,099	1,076	1,078	8.2
Wood.....	576	534	522	537	567	547	8.2	510	525	539	583	601	552	7.7

Table 41

CASES FROM REPORTABLE DISEASE BY COUNTY
Wisconsin, 1981

P. 1 of 4 pages (Resident Data)

County	Aseptic Meningitis (Viral)	Brucellosis	Chickenpox	Menin-gococcal Infections	Mumps	Pertussis (Whooping Cough)	Rabies in Animals	Rubella (German) (Measles)
	047	023	052	036	072	033	071	056
	Cases	Cases	Cases	Cases	Cases	Cases	Cases	Cases
State Total...	114	2	18,239	67	214	36	329	116
Adams.....			25					
Ashland.....			2					
Barron.....	1		4				7	
Bayfield.....			8					
Brown.....	5		708	1	8	1	1	
Buffalo.....			8				3	1
Burnett.....			22					
Calumet.....			1	1			2	1
Chippewa.....			6				3	
Clark.....			15	3		1	11	
Columbia.....	2		56			1	7	
Crawford.....			1		2		9	
Dane.....	11	1	1,452	8	7	2	20	1
Dodge.....			238	1	2	2	18	2
Door.....			161		1		1	
Douglas.....			480		2	1		
Dunn.....	1		3			1	6	
Eau Claire....			92		2		2	
Florence.....			1					
Fond du Lac...			189	1	3		10	
Forest.....			8					
Grant.....	1		160	2	3	1	18	
Green.....			14				10	
Green Lake....	1		88				4	
Iowa.....	2		21				17	
Iron.....			1					
Jackson.....			5					
Jefferson.....			167		2		4	1
Juneau.....			67	1				
Kenosha.....			974	1	11		1	2
Kewaunee.....			126					
La Crosse.....	4		113	3	8	2	4	
Lafayette.....			142				7	
Langlade.....	1		22			2	10	
Lincoln.....			30				1	1
Manitowoc.....			93		2	1	1	1
Marathon.....	2		223	7		3	24	
Marinette.....	1		109	1				
Marquette.....							2	
Menominee.....			1					

Table 41 (Cont.)

CASES FROM REPORTABLE DISEASE BY COUNTY
Wisconsin, 1981

P. 2 of 4 pages (Resident Data)

County	Aseptic Meningitis (Viral) 047 Cases	Brucellosis 023 Cases	Chickenpox 052 Cases	Meningococcal Infections 036 Cases	Mumps 072 Cases	Pertussis (Whooping Cough) 033 Cases	Rabies in Animals 071 Cases	Rubella (German) (Measles) 056 Cases
Milwaukee.....	62		7,084	18	104	2	2	76
Monroe.....			111		1			
Oconto.....			91		1	1		
Oneida.....			67		1	2		1
Outagamie.....	1		768	1	5		2	2
Ozaukee.....			199		3		1	
Pepin.....							1	
Pierce.....			1				3	1
Polk.....			15		1		4	
Portage.....	2		113		8	3	6	
Price.....			10					
Racine.....	1		784	2	1	2	6	5
Richland.....	4		14				3	
Rock.....			660	1	5		14	4
Rusk.....				1			5	
St. Croix.....			22	1	1	1	7	1
Sauk.....			19	1	1		2	
Sawyer.....			2				1	
Shawano.....			12			1	4	
Sheboygan.....			532	1	4		14	2
Taylor.....			2				8	
Trempealeau...			1	1	4		5	
Vernon.....	1		2				5	
Vilas.....			23	3	1			
Walworth.....	2	1	6	1			3	1
Washburn.....			1				1	
Washington....	1		169	1	2		9	6
Waukesha.....	8		1,157	1	15	1	9	
Waupaca.....			46		1		2	
Waushara.....								7
Winnebago.....			464	3		1	2	
Wood.....			28	1	2	4	7	

Table 41 (Cont.)

CASES FROM REPORTABLE DISEASE BY COUNTY
Wisconsin, 1981

P. 3 of 4 pages

(Resident Data)

County	Rubeola (Measles) 055	Salmonellosis (excluding typhoid fever) 003	Shigellosis 004	Tuberculosis 010-018	Viral Hepatitis 070			
					Case Type			
	Cases	Cases	Cases	Cases	A	B	Non: A & B	Unspec.
State Total....	3	1,103*	200	192	266**	172		15
Adams.....								
Ashland.....		2			1			
Barron.....		4	1	1	1			
Bayfield.....								
Brown.....		52	5	13	14	9		1
Buffalo.....								1
Burnett.....		1			20			
Calumet.....		18	1	3				
Chippewa.....		21	2	2	2	2		
Clark.....		11		1	1			
Columbia.....		4	2	1	3	1		
Crawford.....					1			
Dane.....	1	69	20	16	46	22		1
Dodge.....		18		1		3		1
Door.....		5	4			2		
Douglas.....		10		1				
Dunn.....		4		1				
Eau Claire.....		20	1	2	1	1		1
Florence.....		1						
Fond du Lac....		20	1	1	2			
Forest.....								
Grant.....		6	1	1	2	1		
Green.....		2		1	3	1		
Green Lake.....		5						
Iowa.....		1						
Iron.....								
Jackson.....		1						
Jefferson.....		6			1			
Juneau.....		10		1	1	1		
Kenosha.....		3						
Kewaunee.....		16	18	6	6	5		2
La Crosse.....	1	5			1			
Lafayette.....		26		2	10	5		
Langlade.....		5		1				
Lincoln.....		9				1		
Manitowoc.....		8				2		
Marathon.....		28	2	5	3	3		
Marinette.....		33		1	3			
Marquette.....		4		3		1		
Menominee.....		1						
		1		4				

*Fifteen, counties unknown, included in Salmonellosis total.
**One, county unknown, included in total case type A Hepatitis.

Table 41 (Cont.)

CASES FROM REPORTABLE DISEASE BY COUNTY
Wisconsin, 1981

P. 4 of 4 pages (Resident Data)

County	Rubeola (Measles)	Salmonellosis (excluding typhoid fever)	Shigellosis	Tubercu-losis	Viral Hepatitis			
	055	003	004	010-018	070			
					Case Type			
	Cases	Cases	Cases	Cases	A	B	Non: A & B	Unspec.
Milwaukee		290	107	64	96	84		4
Monroe		8			2			1
Oconto		10						
Oneida		7		1		3		
Outagamie		26	1	12	2			
Ozaukee		10	1	2	2	1		
Pepin		4	1					
Pierce		4	1					
Polk		4				2		
Portage		13		4	1			1
Price								
Racine		38	14	6	11	4		
Richland		2			2			1
Rock		33	6	4	6	1		
Rusk		6		1				
St. Croix		4		2				
Sauk		13			2			
Sawyer		6						1
Shawano		7						
Sheboygan		16		4	3	1		
Taylor		5		1				
Trempealeau		8		1				
Vernon		6		2				
Vilas		5		1				
Walworth		6	3	2	1	2		
Washburn		1		2				
Washington	1	11	2	4				
Waukesha		50	4	7	12	10		
Waupaca		8		1				
Waushara		3						
Winnebago		25		2		2		
Wood		29	2	1	3	2		

Table 43

CASES FROM REPORTABLE DISEASE BY MONTH
Wisconsin, 1981

(Resident Data)

Reportable Diseases	9th Rev. ICD	Cases		Jan.	Feb.	Mar.	Apr.	May
		Number	Rate*	Cases	Cases	Cases	Cases	Cases
Aseptic Meningitis	047	114	2.4	1	1	2	1	1
Brucellosis	023	2						
Chickenpox	052	18239	384.6	1713	1793	2180	2784	3870
Meningococcal Infections	036	67	1.4	12	6	3	5	3
Mumps	072	214	4.5	18	33	10	24	30
Pertussis (Whooping Cough)	033	36	0.8	6	3	3	2	
Poliomyelitis (acute)	045	-						
Rabies in Animals	071	329	6.9	29	14	17	35	36
Rheumatic Fever (acute)	390	-						
Rubella (German Measles)	056	116	2.4	5	15	10	27	27
Rubeola (Measles)	055	3					1	
Salmonellosis(exc.typhoid fev.)	003	1103	23.3	88	72	84	92	94
Shigellosis (Dysentery)	004	200	4.2	13	8	16	12	18
Tuberculosis	010-018	192	4.0	8		29	13	17
Viral Hepatitis:	070							
Type A		266	5.6	22	15	19	28	17
Type B		172	3.6	23	14	12	13	12
Non: A & B								
Unspec.		15			3	3	2	

Reportable Diseases	9th Rev. ICD	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
		Cases	Cases	Cases	Cases	Cases	Cases	Cases
Aseptic Meningitis	047	4	19	27	33	17	4	4
Brucellosis	023	1		1				
Chickenpox	052	2178	865	148	223	390	840	1255
Meningococcal Infections	036	5	3	4	4	5	9	6
Mumps	072	27	5	13	22	14	5	13
Pertussis (Whooping Cough)	033	4	2	3	5	2	4	2
Poliomyelitis (acute)	045							
Rabies in Animals	071	34	47	25	30	25	18	19
Rheumatic Fever (acute)	390							
Rubella (German Measles)	056	8	4	3	6	6	1	4
Rubeola (Measles)	055	1	1					
Salmonellosis(exc.typhoid fev.)	003	112	117	123	117	63	70	71
Shigellosis (Dysentery)	004	19	19	21	19	22	19	14
Tuberculosis	010-018	19	14	21	17	15	12	27
Viral Hepatitis:	070							
Type A		20	16	18	28	31	24	28
Type B		14	13	17	15	15	13	11
Non: A & B								
Unspec.		1	3	1	1			1

*Rates per 100,000 population. Rates based on fewer than 20 cases are omitted because they are subject to large random fluctuations. The number "20" is arbitrary and is not set forth as a critical point distinguishing statistically reliable rates.

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DEPARTMENT OF HEALTH AND SOCIAL SERVICES

DIVISION OF HEALTH

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The Center for Health Statistics of the State Division of Health is charged by law with the dual responsibility of maintaining an effective system of vital registration and of making vital statistics available to public and private agencies and to the public at large. A chart depicting the collection process appears on page 36 of this book. Within the Division of Health, these statistics are necessary for evaluating and developing programs that will improve the health of the people of Wisconsin. The data are also widely used for estimating population characteristics and changes.

Each county is a primary registration district for vital events for the rural areas, villages and towns. The office of Register of Deeds is, according to the Statutes, the place for filing of birth, death and marriage records from these areas. In addition, cities, as defined by Wisconsin Statutes, may also serve as primary registration districts with the local health officer serving as the local registrar. Cities have the option of turning the function over to the county register of deeds. Copies of the original records are maintained in the local offices and the original record is forwarded to the State Section of Vital Statistics.

Legal responsibility for preparation and filing birth records is that of the attending physician or other person in attendance. Because nearly all births occur in hospitals, most of the information obtained on the birth certificate is recorded by hospital personnel.

The funeral director has legal responsibility for obtaining information on death certificates and for filing the records with the local registrar. The funeral director also completes fetal death reports. The physician in attendance, coroner or medical examiner is responsible for certifying the cause of death and medical information on the certificate.

Applications for marriage licenses are made in the office of the county clerk. The marriage certificate is completed by the officiant--civil or religious--who has the responsibility of forwarding the original certificate to the local registrar.

Locally the divorce certificate is the responsibility of the clerk of courts where the divorce decree is granted. The county clerk of courts retains the records of the court, has the necessary information transcribed to the divorce certificate and forwards it to the Section of Vital Statistics.

The Section of Vital Statistics maintains a permanent respository for original records of birth, death, marriage and divorce. The statistics in this volume include vital records for years 1981 and 1982 that were filed in the Section of Vital Statistics before March 31, 1982 and 1983. In addition to vital events occurring in Wisconsin, the Section collects data from birth certificates for children born outside of Wisconsin to a mother who is a resident of the state. Data from death certificates for persons who are residents but die outside of the boundaries of Wisconsin are also included.

Wisconsin began using Automated Classification of Medical Entities (ACME) in 1972. Multiple cause mortality statistics have considerable potential for research and health program evaluation.

DEFINITIONS

Residence	Usual place of residence of person to whom event occurred. For births and fetal deaths, residence is defined as the mother's place of residence.
Occurrence	Place where the event occurred.
Minor Civil Division	In Wisconsin, Minor Civil Divisions are the local level of civil government. Cities, villages and towns both exhaust the area (there are no unorganized residual areas) and are exclusive (none overlaps another though one may surround another).
Race	Race for mother, father, or decedent is as stated on certificate. Race of child is determined from the race of the parents.
Deliveries	Live births plus reported fetal deaths.
Live Birth	A live birth is the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which after such separation, breathes or shows any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles.
Fetal Death	Death prior to the complete expulsion or extraction from its mother of a product of conception; the fetus shows no signs of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. Only fetal deaths of at least 20 weeks of gestation must be reported in Wisconsin. A fetal death report is NOT to be used for induced abortions.
Infant Death	Death occurring to live born individual of less than 1 year of age.
Neonatal Death	Live born infant who dies before completing four weeks (28 days) of life.
Out-of-Wedlock Birth	Birth wherein there is no marital tie between mother and father.
Birthweight	Weight of fetus or infant at time of delivery (normally recorded in pounds and ounces or in grams).
Premature Births	Products of conception weighing less than five pounds, nine ounces (2,500 grams or less) at delivery or expulsion.
Maternal Deaths	Those wherein the physician has designated a maternal condition as the underlying cause of death.
Underlying Cause of Death	That condition giving rise to the chain of morbid events leading to death, or the circumstances of the accident or violence that produced the fatal injury.
Associated Cause of Death	Condition other than the underlying cause of death which may have contributed to the death.

RATES

Birth Rate	= No. of Resident Live Births / Total Resident Population	x 1,000
Age-Specific Fertility Rate	= No. of Resident Live Births for a Specific Age of Mother / Total Female Population of Specific Age	x 1,000
Death Rate	= No. of Resident Deaths / Total Resident Population	x 1,000
Fetal Death Rate	= No. of Resident Fetal Deaths / Total Resident Live Births and Resident Fetal Deaths	x 1,000
Infant Death Rate	= No. of Infant Deaths / Total Resident Live Births	x 1,000
Neonatal Death Rate	= No. of Neonatal Deaths / Total Resident Live Births	x 1,000
Out-of-Wedlock Ratio	= No. of Out-of-Wedlock Births (Resident) / Total Resident Live Births	x 1,000
Maternal Death Rate	= No. of Maternal Deaths / Total Resident Live Births	x 100,000
Age-Specific Death Rate	= No. of Deaths in Specific Age Group / Total Resident Population in Specific Age Group	x 100,000
Cause-Specific Death Rate	= No. of Deaths from Specific Cause / Total Resident Population	x 100,000
Communicable Disease Case Rate	= No. of Reported Cases (Specific Communicable Disease) / Total Resident Population	x 100,000
Marriage Rate	= No. of Marriages Performed / Total Resident Population	x 1,000
Divorce Rate	= No. of Divorces and Annulments Granted / Total Resident Population	x 1,000
Population Denominators	= Mid-calendar year estimates	
Event Denominators	= Are registered totals for the calendar year	

Qualifications and Limitations of Data and Calculations

Completeness of Registration

The Bureau of Census assisted in a test of completeness of registration of births in connection with the 1950 census. Registration completeness was 99.6 percent of all births. It is assumed that this relatively complete registration has continued since that time.

Although no test of death registration has been completed, it is assumed that death registration is reasonably complete since burial permit laws and regulations require the filing of a death certificate before a burial permit for the disposition of a body is issued.

Fetal death reporting requires reports for all fetuses of 20 weeks gestation and over. No test for completeness of registration has been done. It is recognized, however, that fetal deaths are likely to be less well reported than other vital events.

Infant Death Data

Notification of infant death is obtained from the regular death certificate. However, much information relevant to the circumstance of infant death is found on the birth certificate. Birth and death records have, therefore, been matched to produce a composite infant death file, which is the source of Tables 22, 23a and 25. Infant death data for tables 11, 12, and 13 are created from the general death file. Table 10 is derived from both sources, as noted on the table. Discrepancies between these two sources are minimal, however, usually involving fewer than ten deaths.

Geographic Classification

In most tables, geographical classifications are limited to county breakdowns. The term "urban" used in some summary tables refers to the sum of those incorporated places having a population of 2,500 or more in the 1980 census. It should be particularly noted that this does not correspond to the official Census Bureau usage since it excludes those portions of urbanized areas that are unincorporated and/or under 2,500 population. Similarly "balance of county" should not be construed as "rural". Tables 23 and 23a lists cities, towns, and villages of 2,500 or more population. All others are summed in balance of county.

Events are assigned to geographical areas according either to place of residence or to place of occurrence. The basis for classification is identified in each table and should be carefully observed when extracting information.

- "Resident Data" means events have been assigned to the area where the person lives (usually legal residence) regardless of where they occurred. In the case of infant deaths and births, the reference is to the residence of the mother. It should be noted that in the case of infant deaths, the place of residence at death may differ from the place of residence at birth; when special tabulations are prepared from both birth and death certificates, it is important to note to which residence category they were assigned.

●"Occurrence Data" means tabulation according to where the events took place, regardless of the usual residence of the person. Since nearly all births and most deaths take place in hospitals, the number which occur in the six counties without hospitals is small. Likewise, the number of occurrences in counties with many hospitals will be large for this reason alone. The six Wisconsin counties in which no hospital is located are:

Florence	Marquette
Forest	Menominee
Iron	Pierce

Comparability in Cause-of-Death Statistics

There are two major limitations in interpreting changes in cause-of-death statistics. Changes in diagnostic practice may affect the comparability of such statistics over time, as do changes in nomenclature and in the classification scheme. The International Classification of Diseases is revised approximately every ten years to incorporate advances in medical science and to reflect changing medical opinion and practice. In Wisconsin, the Sixth Revision was used from 1949-1957, the Seventh Revision from 1958-1967, the Eighth Revision from 1968-1978, and the Ninth Revision adopted in 1979.

Mortality statistics in this report are thus based on the Ninth Revision, (Adapted for use in the United States--ICD 9). These data represent the causes of death as determined by the medical certifier, i.e., the attending physician or coroner. The underlying cause is defined as "the disease or injury which initiated the train of morbid events, leading directly to death" (ICDA, Eighth Revision, 1968, vol. 1, page xxix). Prior to 1973, when two or more causes were jointly recorded, the coder in the Bureau of Health Statistics selected the underlying cause using the ancillary information provided on the death certificate by the physician. Beginning in 1973, however, all causes mentioned on the certificate are coded, and the underlying cause is determined using computer procedures.

The introduction of the concept of "underlying" cause in 1949 with the Sixth Revision resulted in a basic change in the classification of death that would seriously affect the interpretation of mortality trends before and after 1949. Under the first five revisions of the International Classification, prior to 1949, causes of death were coded on the basis of priority tables for multiple causes, as set forth in The Manual for Joint Causes of Death. Comparability ratios based on the Fifth and Sixth Revisions were published by the National Center for Health Statistics. (Vital Statistics-Special Reports, Vol. 51, No. 3). The Seventh Revision was essentially a clarification of the Sixth Revision.

The Eighth Revision introduced some major modifications in classification lists and coding procedures that created a need for comparability ratios for some causes of death when comparisons are made before and after 1968. A study of this problem at the National Center for Health Statistics reveals many small discontinuities and several serious interpretation problems. 1)

1). A. Joan Klebba, Comparability of Mortality Statistics for the 7th and 8th Revisions of the International Classification of Diseases, United States--DHEW Publication No. (HRA) 76-1340.

The Ninth Revision made further modifications in the classification lists and again created a need for comparability ratios for some causes of death when comparisons are made using data for years before 1979 and any year thereafter. In comparison studies, the following should be noted:

- For Diseases of the Heart, the 9th Revision does not include all diseases of the circulatory system as did the 8th.

- For Cerebrovascular Disease, the diseases included in the 9th are basically the same as those for the 8th. It should be noted that terminology changed from the 7th to the 8th. Under the 7th Revision, it was called Vascular Lesions Affecting the Central Nervous System and was listed under Diseases of the Nervous and Sense Organs. For the 8th and 9th Revision, these diseases are listed under Diseases of the Circulatory System.

- For conditions originating in the perinatal period, the 9th Revision has been completely restructured to provide for current medical ideas on these conditions as much progress has been made in recent years. The 9th Revision provides much greater specificity.

For major changes between the 7th and 8th Revision, please refer to Wisconsin Public Health Statistics, 1978.

Small Frequencies

The number of births or deaths reported for a community represent complete counts of these events. As such, they are not subject to sampling error or variation, although they are subject to errors in the collection and processing procedures. However, when the figures are used for comparison of frequencies and rates over a time period or for different areas, the number of events that actually occurred may be considered as one of a large series of possible results that could have arisen under the same circumstances. The probable range of values may be estimated from the actual figures according to certain statistical assumptions (Vital Statistics for the U.S., Vol. 1, 1959, p. 1-20). Frequencies of and rates based on fewer than 20 deaths are, therefore, omitted from this report because they are subject to large random fluctuations. The number "20" is arbitrary, however, and is not set forth as a critical point distinugishing statistically reliable rates.

Rates

In interpreting the conditions described by vital statistics rates considerable caution must be observed. In particular, differences in rates from time to time or place to place may arise from a number of population differences and other confounding factors, and appropriate techniques (e.g. standardization) should be utilized in such comparisons.

Population

POPULATION

The vital events tabulated in this report would be stripped of most of their public health meaning without knowledge of the population to whom the events occurred. This section is intended to provide some background for context in the analysis and interpretation of the vital statistics.

In the first census after statehood the Wisconsin population was just over 300,000; 1.3% of U. S. in 1850. The proportion of the U. S. rose by 1870 to 2.7% when 1,055,000 were counted. In 1900 when 2,069,000 were reported, the proportion remained at 2.7%. Since 1900, the proportion has gradually declined to 2.1% in 1980, when the tally was more than 4,705,000.

Intercensal rates of growth have ranged during this century from 6.5% in the 1970's and 6.8 in the 1930's to 15.1% in the 1950's. The variation is largely accounted for by extremes of fertility.

The population growth in the 1970's was smaller than in any decade since the 1930's. Live births were 110,000 fewer in the 1970's than in the 1960's and 156,000 fewer than in the 1950's. Deaths on the other hand were 50,000 more in the 1970's than the 1960's and 94,000 more than in the 1950's. Net out-migration was negligible in both the 1960's and 1970's after having been substantial from the 1930's through the 1950's.

The most useful population characteristics for vital statistics are age, sex, race, and geographic distribution. The recent changes in age-sex distribution are graphically summarized in Figure 2. In the 1970's the under 15 population declined as a proportion of the total from 30% in 1970 to 23% in 1980, the lowest proportion in this century (or probably ever).

The children of the baby boom are now 15 through 34 and remain the demographic "pig in the python." The inter-war birth cohorts are now in the forties and fifties. The pre-World War I generation are now our elderly. From 1.6% in 1900, the seventy-five and older increased their share of the total to 2.5% in 1940, 3.5 in 1960 and now 5.0% in 1980.

In most circumstances the sex ratio (males per 100 females) changes only gradually. More males are live born than females. At all ages, however, differential mortality produces greater female survivorship. By age 95 and older there are fewer than 36 males per hundred females. In Wisconsin the effect of predominantly male immigration was to give us higher sex ratios in earlier censuses: in 1910, 107; in 1940, 104. That effect has largely worked out of the 1980 population.

The racial composition of Wisconsin population remains in 1980 predominantly white (94.4%). Blacks are the second largest group with 182,600, up from 128,000 in 1970. Comparisons over time for other races (Amerindians and Asians) are confounded by cultural changes in self-identification and procedural changes in the taking of the census. In 1980, Amerindians numbered 29,300 (0.6%) and all other races less than 51,000 (1.1%).

Spanish origin population were just under 63,000 in 1980, about two-thirds of Mexican origin, and fewer than 1,000 of Cuban origin. The Cuban "boat" people arrived after the 1980 Census. (As an ethnic rather than racial classification, the Spanish origin may be of any race).

The geographic distribution of the State underwent significant changes from the traditional southeast migration--to urban from rural. Figure 4 maps the net migration among the counties during the 1970's. Net out-migration of sizable numbers affected only Kenosha (2,500), Racine (10,500), and Milwaukee (149,000) in the southeast, and Manitowoc (3,700) and Winnebago (5,000) in the east central. Counties receiving substantial numbers of net in-migrants were Dane (9,200) in the south, Eau Claire (7,300) and La Crosse (6,100) in the west central, and Washington (13,800) and Waukesha (31,000) in the Milwaukee metropolitan area. Nevertheless, smaller counties up-state have spectacular rates of net in-migration: Adams (45.5%) and Marquette (30.6) in the central part, and Sawyer (31.6) and Vilas (51.3) in the North and Burnett (32.8) to the northwest and Florence (25.5) to the northeast.

Figure 1

PERCENT CHANGE IN
WISCONSIN'S POPULATION
BY AGE, 1960-1970

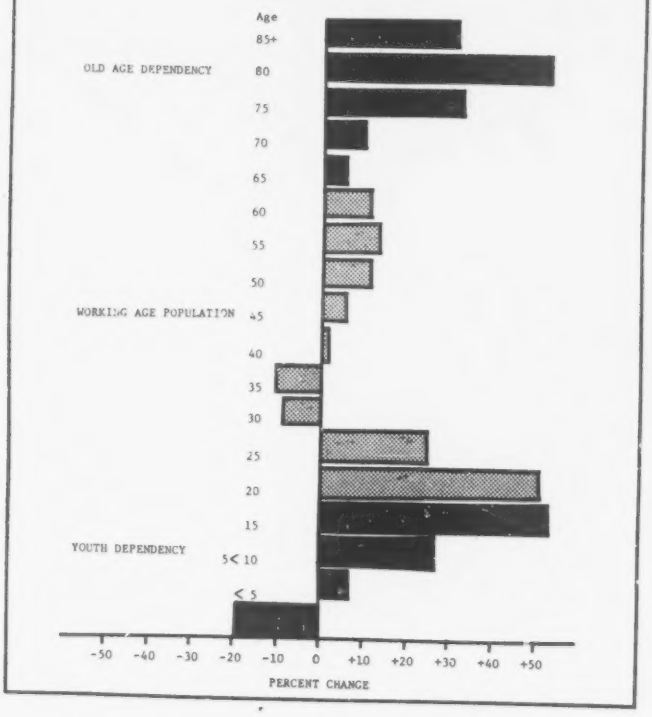

Figure 1a

PERCENT CHANGE IN
WISCONSIN'S POPULATION
BY AGE, 1970-1980

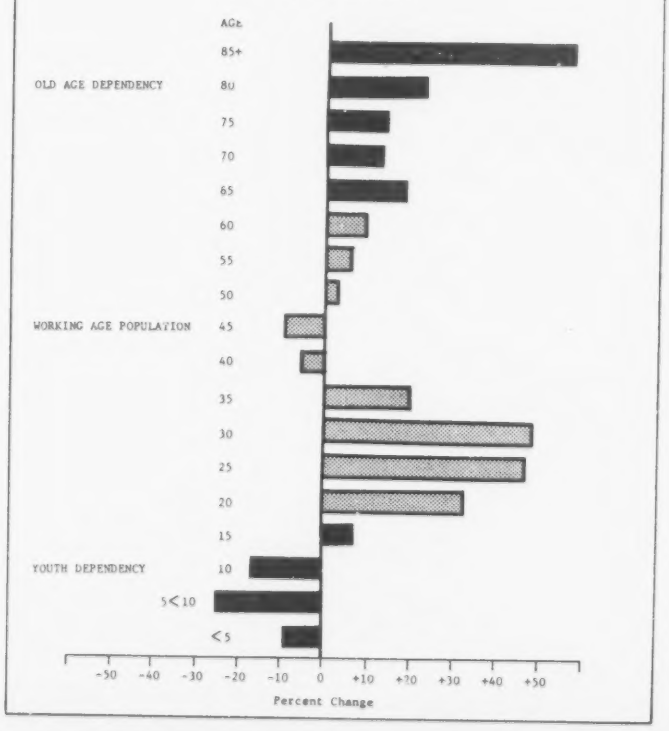

Figure 2. POPULATION PYRAMIDS
Wisconsin, 1930-1980

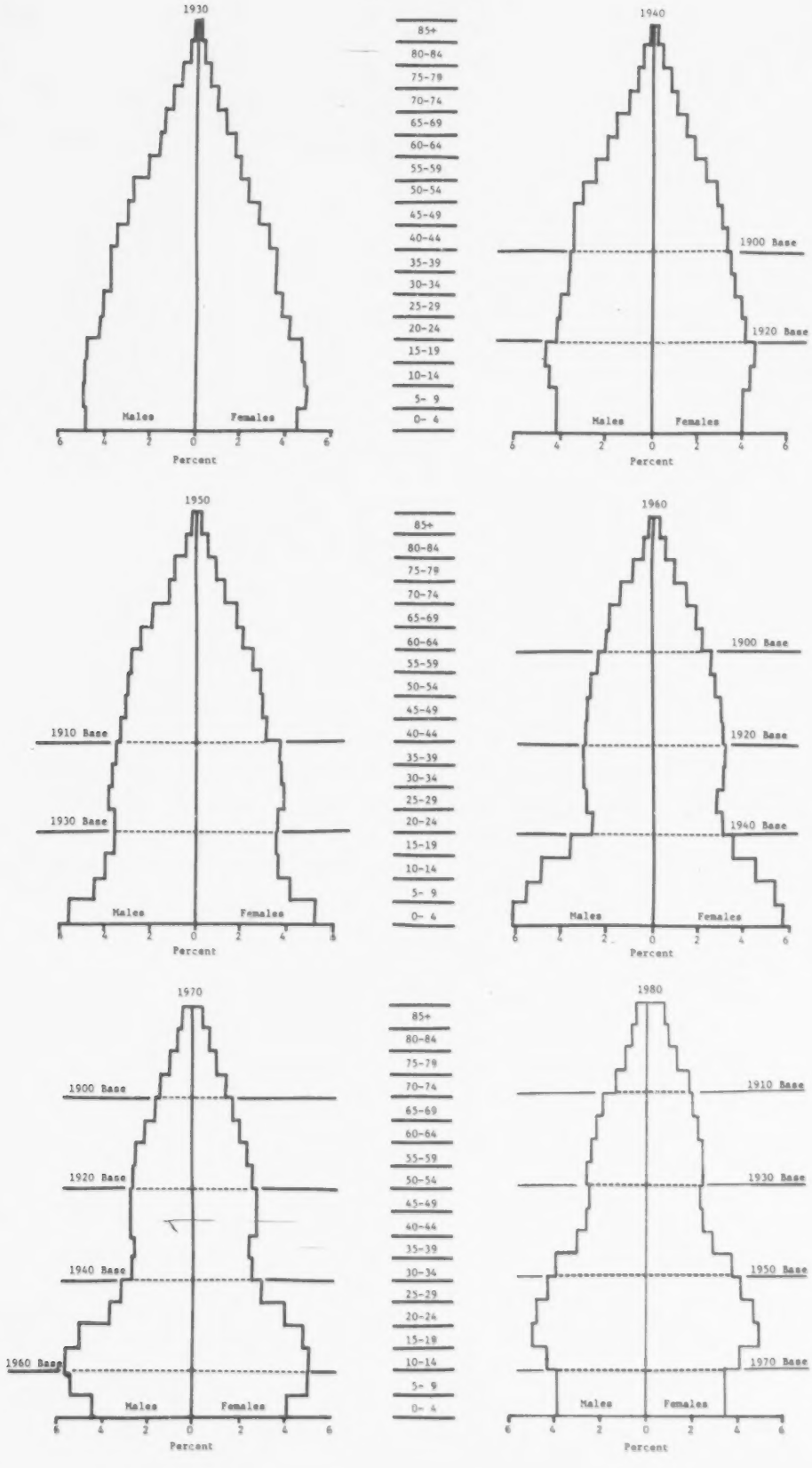

Figure 3. TOTAL POPULATION GROWTH
BY COUNTIES, WISCONSIN - 1970-1980

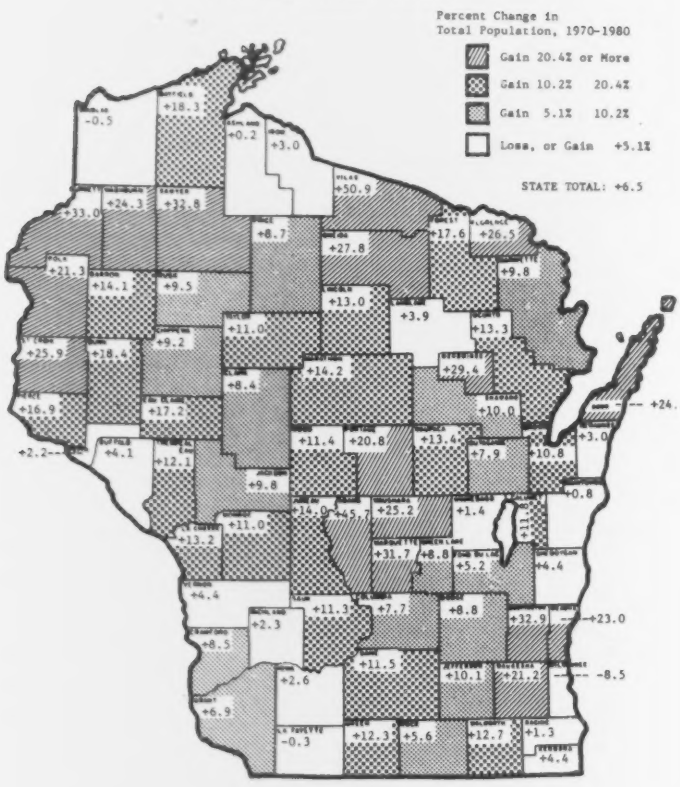

Figure 4. PERCENT CHANGE IN POPULATION DUE TO MIGRATION
BY COUNTIES, WISCONSIN - 1970-1980

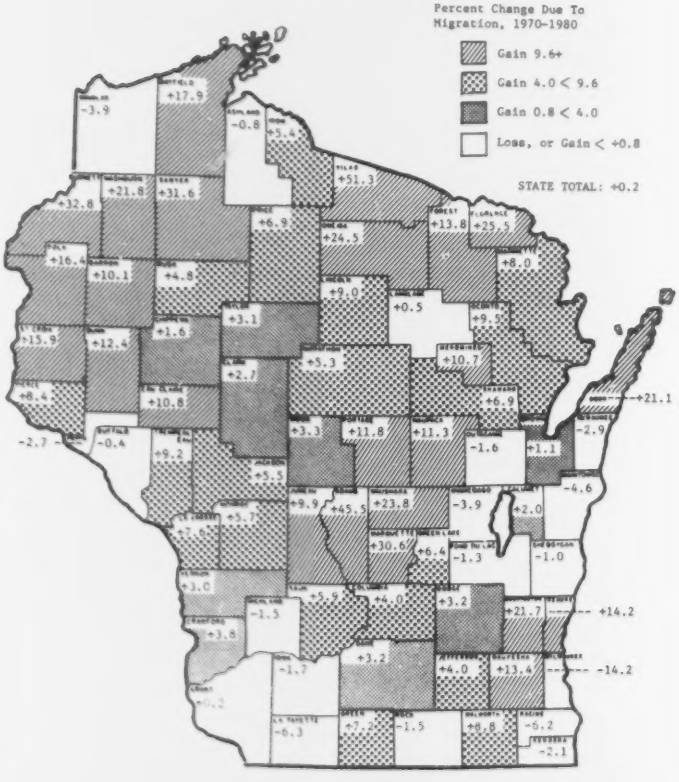

Table 1

WISCONSIN POPULATION BY COUNTIES ENUMERATED IN 1980 AND ESTIMATED JULY 1, 1982
WITH AMOUNT AND RATE OF CHANGE

Page 1 of 2

County	April 1, 1980 U. S. Census			July 1, 1982 Estimate	Change from 1980-1982	
	Total	White	Nonwhite		Number	Percent
State Total.....	4,705,767	4,443,035	262,732	4,745,000	39 233	0.8
Adams.....	13,457	13,049	408	14,200	743	5.5
Ashland.....	16,783	15,618	1,165	17,300	517	3.1
Barron.....	38,730	38,464	266	39,000	270	0.7
Bayfield.....	13,822	12,855	967	14,300	478	3.5
Brown.....	175,280	171,224	4,056	179,400	4,120	2.4
Buffalo.....	14,309	14,258	51	14,600	291	2.0
Burnett.....	12,340	11,883	457	13,100	760	6.2
Calumet.....	30,867	30,635	232	31,800	933	3.0
Chippewa.....	52,127	51,843	284	53,200	1,073	2.1
Clark.....	32,910	32,715	195	33,100	190	0.6
Columbia.....	43,222	42,892	330	43,400	178	0.4
Crawford.....	16,556	16,486	70	16,700	144	0.9
Dane.....	323,545	311,203	12,342	331,100	7,555	2.3
Dodge.....	75,064	73,635	1,429	75,700	636	0.8
Door.....	25,029	24,737	292	25,700	671	2.7
Douglas.....	44,421	43,481	940	44,700	279	0.6
Dunn.....	34,314	33,821	493	34,900	586	1.7
Eau Claire.....	78,805	77,891	914	81,400	2,595	3.3
Florence.....	4,172	4,138	34	4,200	28	0.7
Fond du Lac.....	88,964	88,181	783	89,300	336	0.4
Forest.....	9,044	8,426	618	9,100	56	0.6
Grant.....	51,736	51,419	317	51,700	- 36	- 0.1
Green.....	30,012	29,881	131	30,000	- 12	- 0.0
Green Lake.....	18,370	18,242	128	18,900	530	2.9
Iowa.....	19,802	19,724	78	20,200	398	2.0
Iron.....	6,730	6,681	49	6,600	- 130	- 1.9
Jackson.....	16,831	16,266	565	16,700	- 131	- 0.8
Jefferson.....	66,152	65,272	880	66,500	348	0.5
Juneau.....	21,039	20,748	291	21,100	61	0.3
Kenosha.....	123,137	117,862	5,275	121,500	- 1,637	- 1.3
Kewaunee.....	19,539	19,486	53	19,900	361	1.8
La Crosse.....	91,056	90,159	897	93,000	1,944	2.1
Lafayette.....	17,412	17,355	57	17,300	- 112	- 0.6
Langlade.....	19,978	19,843	135	20,000	22	0.1
Lincoln.....	26,555	26,376	179	26,800	245	0.9
Manitowoc.....	82,918	81,994	924	83,400	482	0.6
Marathon.....	111,270	110,488	782	112,300	1,030	0.9
Marinette.....	39,314	39,091	223	39,900	586	1.5
Marquette.....	11,672	11,561	111	12,200	528	4.5
Menominee.....	3,373	352	3,021	3,800	427	12.7
Milwaukee.....	964,988	788,729	176,259	959,000	- 5,988	- 0.6
Monroe.....	35,074	34,654	420	35,700	626	1.8
Oconto.....	28,947	28,744	203	29,000	53	0.2
Oneida.....	31,216	30,949	267	31,500	284	0.9
Outagamie.....	128,799	126,115	2,684	131,800	3,001	2.3

County population estimates in this table and in table 3 were independently made and thus differ slightly one from another. These estimates were ratio-adjusted to the USBOC state estimate 4,745,000, before rounding. The state and counties were then independently rounded respectively to thousands and to hundreds. Therefore, the sum of the counties may not exactly equal the state total.

Table 1 (Cont.)

WISCONSIN POPULATION BY COUNTIES ENUMERATED IN 1980 AND ESTIMATED JULY 1, 1982
WITH AMOUNT AND RATE OF CHANGE

Page 2 of 2

County	April 1, 1980 U. S. Census			July 1, 1982 Estimate	Change from 1980-1982	
	Total	White	Nonwhite		Number	Percent
Ozaukee	66,981	66,029	952	67,100	119	0.2
Pepin	7,477	7,448	29	7,500	23	0.3
Pierce	31,149	30,863	286	31,700	551	1.8
Polk	32,351	32,026	325	33,400	1,049	3.2
Portage	57,420	56,670	750	56,600	- 820	- 1.4
Price	15,788	15,707	81	16,200	412	2.6
Racine	173,132	155,206	17,926	173,000	- 132	- 0.1
Richland	17,476	17,383	93	17,600	124	0.7
Rock	139,420	133,367	6,053	138,800	- 620	- 0.4
Rusk	15,589	15,440	149	15,700	111	0.7
St. Croix	43,262	43,005	257	44,400	1,138	2.6
Sauk	43,469	43,133	336	44,400	931	2.1
Sawyer	12,843	11,416	1,427	13,700	857	6.7
Shawano	35,928	34,490	1,438	36,200	272	0.8
Sheboygan	100,935	99,526	1,409	101,900	965	1.0
Taylor	18,817	18,732	85	19,200	383	2.0
Trempealeau	26,158	26,070	88	26,200	42	0.2
Vernon	25,642	25,546	96	26,300	658	2.6
Vilas	16,535	15,323	1,212	17,200	665	4.0
Walworth	71,507	69,841	1,666	71,400	- 107	- 0.1
Washburn	13,174	13,053	121	13,500	326	2.5
Washington	84,848	84,304	544	85,900	1,052	1.2
Waukesha	280,326	276,105	4,221	282,600	2,274	0.8
Waupaca	42,831	42,535	296	43,300	469	1.1
Waushara	18,526	18,289	237	18,600	74	0.4
Winnebago	131,703	130,100	1,603	132,900	1,197	0.9
Wood	72,799	72,002	797	74,700	1,901	2.6

Table 2

WISCONSIN POPULATION GROWTH DUE TO NATURAL INCREASE AND MIGRATION
1945-1982

Year	Estimated Population July 1, each year	Resident[a] Births	Resident[a] Deaths	Natural Increase (Births minus Deaths)	% gain or loss[b] through migration (total gain minus natural increase)
NOTE: DATA FOR YEARS 1930 THRU 1944 APPEAR IN THE 1979 PUBLIC HEALTH STATISTICS REPORT.					
1945	2,961,000	61,753	31,575	30,178	-1.66
1946	3,167,000	68,223	31,871	36,352	+5.36
1947	3,250,000	79,715	32,522	47,193	+1.10
1948	3,314,000	83,188	32,807	50,381	+0.41
1949	3,391,000	82,499	32,706	49,793	+0.80
1950	3,449,000	82,774	33,225	49,549	+0.25
1951	3,437,000	85,092	33,486	51,606	-1.85
1952	3,463,000	88,381	33,643	54,738	-0.83
1953	3,502,000	88,675	34,364	54,311	-0.44
1954	3,599,000	89,989	34,275	55,714	+1.15
1955	3,666,000	91,952	34,480	57,472	+0.26
1956	3,740,000	92,915	35,374	57,541	+0.44
1957	3,802,000	94,947	36,342	58,605	+0.09
1958	3,863,000	96,174	37,322	58,852	+0.06
1959	3,915,000	97,234	37,312	59,922	-0.20
1960 [c]	3,967,000	99,006	37,644	61,362	-0.24
1961	4,014,000	98,965	37,724	61,241	-0.35
1962	4,043,000	96,467	37,829	58,638	-0.73
1963	4,086,000	93,052	39,004	54,048	-0.27
1964	4,151,000	90,258	39,274	50,984	+0.34
1965	4,212,000	85,915	39,509	46,406	+0.35
1966	4,262,000	81,666	40,241	41,425	+0.20
1967	4,303,000	78,105	39,995	38,110	+0.07
1968	4,332,000	75,028	40,489	34,539	-0.13
1969	4,381,000	74,291	41,198	33,093	+0.36
1970	4,425,000	75,890	40,946	34,944	+0.20
1971	4,465,000	74,716	40,600	34,116	+0.13
1972	4,512,000	68,348	41,227	27,121	+0.44
1973	4,518,000	63,758	41,684	22,074	-0.36
1974	4,538,000	63,973	41,052	22,921	-0.06
1975	4,555,000	65,147	40,363	24,784	-0.17
1976	4,578,000	65,093	40,054	25,039	-0.04
1977	4,613,000	66,795	39,759	27,036	+0.17
1978	4,645,000	68,561	39,806	28,755	+0.07
1979	4,680,000	70,892	39,716	31,176	+0.08
1980	4,714,000	73,987	39,974	34,013	0.00
1981	4,735,000	74,537	40,649	33,888	-0.27
1982	4,745,000	74,315	40,361	33,954	-0.51
Intercensal Population Increase					
1930-1940	198,581	534,071	307,555	226,516	-0.95
1940-1950	296,988	684,692	318,186	366,506	-2.22
1950-1960	517,202	912,192	350,928	561,264	-1.28
1960-1970	466,044	866,975	393,733	473,242	-0.18
1970-1980	287,946	756,685	444,939	311,746	-0.54

a. Births and Deaths in the upper panel have been recomputed on a Fiscal Year basis (July 1 to June 30) to match midyear population estimates. Births and Deaths in the lower panel have been recomputed to an April 1 to March 31 basis to match Census dates.

b. The percent gain or loss through migration is computed by dividing the number of net migrants by the population at the beginning of the period in hundreds.

c. July 1 estimates, 1961 to 1969 and 1971 to 1979 have been adjusted for the error in previously published estimates revealed in the 1970 and 1980 Censuses.

Table 3

WISCONSIN POPULATION CHARACTERISTICS BY COUNTY - JULY 1, 1982 ESTIMATE

P. 1 of 2 pages

County	Male	Female	Total	Age			
				0-19	20-34	35-64	65+
State Total....	2,321,000	2,424,000	4,745,000	1,487,000	1,251,000	1,421,000	587,000
Adams.....	7,500	6,500	14,000	3,800	3,200	4,550	2,450
Ashland.....	8,250	8,850	17,100	5,300	4,050	5,050	2,700
Barron.....	20,200	19,850	40,050	12,050	8,650	13,000	6,350
Bayfield.....	7,550	6,550	14,100	3,800	3,250	4,550	2,500
Brown.....	88,550	91,250	179,800	63,000	47,750	51,300	17,750
Buffalo.....	7,200	7,050	14,250	4,300	3,050	4,650	2,250
Burnett.....	5,650	6,850	12,500	4,350	2,000	4,000	2,150
Calumet.....	16,000	16,400	32,400	11,350	8,600	9,250	3,200
Chippewa.....	25,800	26,850	52,650	16,950	13,250	15,750	6,700
Clark.....	15,650	16,850	32,500	10,150	6,950	10,100	5,300
Columbia.....	21,000	22,650	43,650	13,450	10,350	12,950	6,900
Crawford.....	7,950	8,500	16,450	5,150	3,500	5,100	2,700
Dane.....	163,600	166,750	330,350	97,100	118,050	86,650	28,550
Dodge.....	36,450	40,300	76,750	23,750	18,800	23,900	10,300
Door.....	13,950	12,050	26,000	7,050	6,000	8,350	4,600
Douglas.....	21,050	23,450	44,500	13,300	12,350	13,150	5,700
Dunn.....	16,850	17,900	34,750	12,000	9,950	8,850	3,950
Eau Claire.....	38,900	42,000	80,900	24,950	23,100	22,850	10,000
Florence.....	2,000	2,200	4,200	1,300	900	1,300	700
Fond du Lac....	44,250	46,050	90,300	29,000	22,800	27,000	11,500
Forest.....	4,400	4,600	9,000	3,100	2,000	2,450	1,450
Grant.....	25,150	26,700	51,850	17,900	14,850	13,150	5,950
Green.....	14,600	15,800	30,400	9,400	7,200	9,000	4,800
Green Lake.....	9,200	9,250	18,450	5,500	3,900	5,650	3,400
Iowa.....	10,350	9,900	20,250	6,450	4,750	6,100	2,950
Iron.....	3,000	3,650	6,650	2,350	1,050	2,150	1,100
Jackson.....	8,150	8,050	16,200	4,850	3,550	5,250	2,550
Jefferson.....	32,550	35,150	67,700	20,850	19,350	19,150	8,350
Juneau.....	10,200	11,000	21,200	6,550	5,000	6,300	3,350
Kenosha.....	60,200	60,550	120,750	37,850	31,550	37,950	13,400
Kewaunee.....	10,250	9,850	20,100	6,450	4,700	6,050	2,900
La Crosse.....	44,050	47,500	91,550	28,250	26,100	25,900	11,300
Lafayette.....	8,850	8,500	17,350	5,550	4,050	5,200	2,550
Langlade.....	9,750	10,500	20,250	6,300	4,300	6,300	3,350
Lincoln.....	13,250	13,000	26,250	7,850	5,700	8,550	4,150
Manitowoc.....	40,900	42,600	83,500	26,850	21,050	24,950	10,650
Marathon.....	55,300	57,550	112,850	36,250	28,450	33,750	14,400
Marinette.....	20,200	19,850	40,050	12,050	8,650	13,000	6,350
Marquette.....	5,450	6,700	12,150	4,250	1,950	3,900	2,050
Menominee.....	1,550	1,450	3,000	1,700	400	750	150
Milwaukee.....	448,850	499,750	948,600	282,700	264,450	279,950	121,500
Monroe.....	17,850	17,500	35,350	10,650	7,650	11,450	5,600
Oconto.....	14,150	15,200	29,350	9,150	6,250	9,100	4,850
Oneida.....	16,250	15,950	32,200	9,700	6,950	10,500	5,050
Outagamie.....	64,750	66,700	131,450	46,050	34,900	37,500	13,000

County population estimates in this table and in table 1 were independently made and thus differ slightly one from another. These estimates were ratio-adjusted to the USBOC state estimate 4,745,000, before rounding. The state and counties were then independently rounded respectively to thousands and to fifties. Therefore, the sum of the counties may not exactly equal the state total.

Table 3 (Cont.)

WISCONSIN POPULATION CHARACTERISTICS BY COUNTY - JULY 1, 1982 ESTIMATE

P. 2 of 2 pages

County	Male	Female	Total	Age			
				0-19	20-34	35-64	65+
Ozaukee.....	34,700	33,750	68,450	22,750	16,400	23,750	5,550
Pepin.....	3,750	3,950	7,700	2,650	1,700	2,100	1,250
Pierce.....	15,300	16,250	31,550	10,900	9,050	8,000	3,600
Polk.....	16,750	16,500	33,250	10,000	7,200	10,800	5,250
Portage.....	28,600	30,400	59,000	20,350	16,900	15,000	6,750
Price.....	8,500	7,400	15,900	4,300	3,650	5,150	2,800
Racine.....	85,950	86,450	172,400	54,050	45,050	54,200	19,100
Richland.....	8,600	9,200	17,800	5,500	4,200	5,250	2,850
Rock.....	69,800	70,100	139,900	43,850	36,550	43,950	15,550
Rusk.....	7,650	8,200	15,850	4,950	3,400	4,900	2,600
St. Croix.....	22,100	22,950	45,050	14,500	11,350	13,450	5,750
Sauk.....	21,150	22,900	44,050	13,600	10,450	13,050	6,950
Sawyer.....	6,650	6,700	13,350	3,850	2,500	4,600	2,400
Shawano.....	18,350	18,000	36,350	10,950	7,850	11,850	5,700
Sheboygan.....	48,750	53,850	102,600	31,750	25,100	31,950	13,800
Taylor.....	9,400	9,750	19,150	6,600	4,200	5,250	3,100
Trempealeau.....	13,100	12,900	26,000	7,850	5,600	8,450	4,100
Vernon.....	13,600	11,850	25,450	6,900	5,850	8,200	4,500
Vilas.....	8,500	8,550	17,050	4,950	3,200	5,800	3,100
Walworth.....	34,850	37,550	72,400	22,350	20,650	20,450	8,950
Washburn.....	6,750	6,850	13,600	3,950	2,550	4,650	2,450
Washington.....	42,900	44,150	87,050	30,500	23,100	24,850	8,600
Waukesha.....	145,750	141,900	287,650	95,500	68,950	99,900	23,300
Waupaca.....	21,900	22,200	44,100	13,100	9,400	13,450	8,150
Waushara.....	9,350	9,450	18,800	5,600	4,000	5,750	3,450
Winnebago.....	64,600	69,550	134,150	41,400	38,250	37,900	16,600
Wood.....	36,150	37,600	73,750	23,700	18,600	22,050	9,400

Figure 5

BIRTH AND DEATH RATES, WISCONSIN, 1940-1982

(Resident Data)

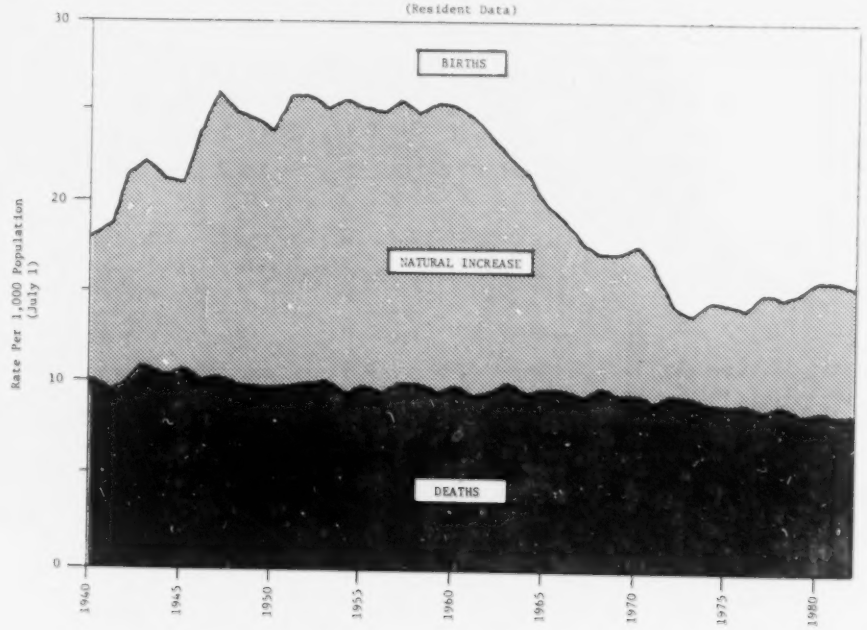

Table 4

WISCONSIN POPULATION BY AGE AND SEX, WHITE AND NONWHITE
1980 CENSUS AND 1982 ESTIMATE

Age	Total				Male				Female			
	1982 Estimate	1980 Census			1982 Estimate	1980 Census			1982 Estimate	1980 Census		
		Total	White	Nonwhite		Total	White	Nonwhite		Total	White	Nonwhite
Total	4,745,000	4,705,767	4,443,035	262,732	2,320,000	2,305,427	2,177,806	127,621	2,425,000	2,400,340	2,265,229	135,111
Under 5	388,000	346,940	316,240	30,700	199,000	178,111	162,719	15,392	189,000	168,829	153,521	15,308
Under 1	76,000	75,319	68,489	6,830	39,000	38,690	35,193	3,497	37,000	36,629	33,296	3,333
1 year												
2 years												
3 years												
4 years												
5- 9 years	331,000	344,804	313,835	30,969	170,000	176,843	161,331	15,512	161,000	167,961	152,504	15,457
10-14 years	352,000	392,247	362,555	29,692	180,000	200,634	185,652	14,982	172,000	191,613	176,903	14,710
15-19 years	416,000	466,612	436,852	29,760	210,000	235,736	220,906	14,830	206,000	230,876	215,946	14,930
20-24 years	455,000	450,026	421,067	28,959	227,000	224,250	210,121	14,129	228,000	225,776	210,946	14,830
25-29 years	409,000	401,915	376,189	25,726	206,000	202,273	189,933	12,340	203,000	199,642	186,256	13,386
30-34 years	387,000	348,115	327,841	20,274	194,000	174,497	164,994	9,503	193,000	173,618	162,847	10,771
35-39 years	298,000	271,661	257,318	14,343	148,000	134,821	128,037	6,784	150,000	136,840	129,281	7,559
40-44 years	243,000	230,312	218,574	11,738	121,000	114,330	108,799	5,531	122,000	115,982	109,775	6,207
45-49 years	205,000	219,866	209,858	10,008	101,000	108,401	103,827	4,574	104,000	111,465	106,031	5,434
50-54 years	228,000	233,079	224,205	8,874	112,000	114,761	110,552	4,209	116,000	118,318	113,653	4,665
55-59 years	237,000	229,046	222,159	6,887	114,000	110,278	106,884	3,394	123,000	118,768	115,275	3,493
60-64 years	210,000	206,947	202,048	4,899	98,000	96,830	94,534	2,296	112,000	110,117	107,514	2,603
65-69 years	183,000	184,722	180,912	3,810	83,000	84,318	82,632	1,686	100,000	100,404	98,280	2,124
70-74 years	157,000	145,693	143,054	2,639	67,000	62,950	61,846	1,104	90,000	82,743	81,208	1,535
75-79 years	114,000	107,568	105,806	1,762	46,000	43,289	42,584	705	68,000	64,279	63,222	1,057
80-84 years	72,000	70,577	69,629	948	26,000	25,539	25,165	374	46,000	45,038	44,464	574
85+ years	60,000	55,637	54,893	744	18,000	17,566	17,290	276	42,000	38,071	37,603	468
65+ years	586,000	564,197	554,294	9,903	240,000	233,662	229,517	4,145	346,000	330,535	324,777	5,758
Median age	30.3	29.4	29.9	21.8	29.2	28.3	28.9	21.1	31.4	30.4	31.0	22.4

Table 5

ABRIDGED LIFE TABLE FOR WISCONSIN MALES 1980-1982 (1981 Average)

Age Interval X to X + N	Number Living Exactly to Age X	Probability of Death During Age Interval	Total Number of Persons in Age Group X to X + N	*Mean of Years Lived From Age X to Death	**Average Age At Death of Those Age X
0-01	100,000	0.01038	99,248	72.16	75.37
01-04	98,962	0.00212	395,299	71.92	75.53
05-09	98,752	0.00145	493,360	68.07	75.57
10-14	98,609	0.00168	492,661	63.16	75.59
15-19	98,443	0.00613	490,824	58.27	75.62
20-24	97,839	0.00756	487,493	53.61	75.72
25-29	97,100	0.00666	484,008	49.00	75.84
30-34	96,453	0.00620	480,887	44.31	75.94
35-39	95,855	0.00817	477,471	39.57	76.04
40-44	95,072	0.01283	472.548	34.87	76.17
45-49	93,852	0.02381	464,100	30.29	76.37
50-54	91,618	0.03624	450,400	25.96	76.73
55-59	88,298	0.05851	429,473	21.84	77.27
60-64	83,131	0.09128	397,894	18.03	78.11
65-69	75,543	0.14253	352,247	14.57	79.35
70-74	64,776	0.21101	291,067	11.56	81.12
75-79	51,107	0.30028	217,920	8.95	83.38
80-84	35,761	0.42239	140,563	6.70	87.02
85-99	20,656	1.00000	98,946	4.79	92.50

Table 6

ABRIDGED LIFE TABLE FOR WISCONSIN FEMALES 1980-1982 (1981 Average)

Age Interval X to X + N	Number Living Exactly to Age X	Probability of Death During Age Interval	Total Number of Persons in Age Group X to X + N	*Mean of Years Lived From Age X to Death	**Average Age At Death of Those Age X
0-01	100,000	0.00802	99,419	79.10	82.48
01-04	99,198	0.00179	396,323	78.74	82.59
05-09	99,020	0.00097	494,832	74.88	82.62
10-14	98,924	0.00086	494,425	69.95	82.63
15-19	98,839	0.00217	493,702	65.01	82.65
20-24	98,624	0.00225	492,611	60.14	82.68
25-29	98,402	0.00246	491,455	55.27	82.71
30-34	98,160	0.00325	490,069	50.40	82.75
35-39	97,842	0.00507	488,066	45.56	82.80
40-44	97,345	0.00731	485,089	40.77	82.87
45-49	96,634	0.01403	480,045	36.05	82.97
50-54	95,279	0.02134	471,698	31.53	83.17
55-59	93,245	0.02988	459,782	27.16	83.48
60-64	90,459	0.04749	442,326	22.91	83.89
65-69	86,163	0.07502	415,735	18.92	84.52
70-74	79,699	0.11146	377,618	15.24	85.59
75-79	70,816	0.17615	324,362	11.82	87.19
80-84	58,341	0.28937	250,434	8.78	89.45
85-99	41,459	1.00000	262,087	6.32	92.50

*Corresponds to what is usually termed "Life Expectancy" at age X.
**Median age attained by survivors to age X or age attained by 50% of those reaching age X.

Summary of Vital Events

NOTES PERTAINING TO TABLE 7

I. General Footnotes

a). Resident figures beginning 1934, previous figures are occurrence data.

b). Crude birth rates for 1941-1946 are calculated on the civilian population as suggested in National Office of Vital Statistics of the U. S., 1950, Vol. 1, page 29.

c). Number of live births, 1940-1950 corrected for underregistration.

d). Figures are by Place of Occurrence.

e). Excluded legal separations, from 1960 to present.

f). July 1 population estimates, 1960 to 1970 and 1970 to 1980 have been revised after the Census.

II. Notes Pertaining to Rates

Live birth, death, marriage, and divorce: crude rates per 1,000 population.

Infant death rate per 1,000 live births.

Fetal death rate per 1,000 deliveries (live births plus stillbirths of 20 weeks or more gestation).

Maternal death rate per 100,000 live births. Earlier publications in this series have used other bases.

III. Definition of Terms and Rates

Refer to pages viii and ix.

SUMMARY OF VITAL EVENTS

The 1982 health statistics for Wisconsin largely reflect the continuation of general trends. The death rate has decreased in the last decade from 9.1 in 1973 to 8.5 in 1982. Live birth rates were relatively stable for the five year period 1978-1982, averaging 15.5. The infant death rate has continued to decrease from 22.1 per 1,000 population in 1965 to 9.4 in 1982, a decline of about 57%. The fetal death rate has shown a drop in the past ten years from 9.3 to 7.1 in 1982.

During 1982, registration of vital events (live births, total deaths, fetal deaths or stillbirths, marriages, divorces and annulments) totaled 174,547, a slight decrease (0.2%) from the events (174,948) recorded in 1981.

Divorce and annulment rates rose dramatically after 1960. In 1960, the number of divorces and annulments per 1,000 population was 0.9. By 1982, the rate increased four-fold. During the early sixties, marriage rates were at the lowest point since 1933. From 1962 to 1973, the rates rose from 6.0 to 8.9, then fluctuated for several years until 1982 when the same rate of 8.9 was recorded.

On the average there was a birth every 7 minutes, a death every 13 minutes, an infant death every 13 hours, a neonatal death every 19 hours, a fetal death every 17 hours, a marriage every 12 minutes, and a divorce or annulment every 30 minutes.

Table 7

WISCONSIN VITAL EVENTS AND RATES (1930-1982)
(Resident Data)*

Year	Estimated Mid Year Population	Live Births		Infant Deaths		Fetal Deaths		Total Deaths (excl. fetal deaths)		Maternal Deaths		Marriages		Divorces Annulments & Separations	
		No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.[d]	Rate	No.[d]	Rate
Note:	Data for years 1910 thru 1929 appear in the 1979 Public Health Statistics report.														
1930	2,947,000	56,643	19.2	3,149	55.6	1,683[d]	28.9	30,488	10.4	298	526.1	15,328	5.2	2,553	.9
1931	2,972,000	54,421	18.3	2,884	52.9	1,512	27.0	30,202	10.2	238	437.3	14,954	5.1	2,702	.9
1932	2,992,000	53,326	17.8	2,670	50.1	1,463	26.7	30,294	10.1	225	421.9	14,034	4.7	2,404	.8
1933	3,009,000	50,450	16.8	2,444	48.4	1,440	27.8	29,475	9.8	236	467.8	15,962	5.3	2,479	.8
1934	3,028,000	51,461[a]	17.0	2,539[a]	49.3	1,300[a]	24.6	30,164[a]	10.0	215[a]	417.8	20,074	6.6	3,231	1.1
1935	3,048,000	52,402	17.2	2,413	46.0	1,257	23.4	30,404	10.0	193	368.3	21,075	6.9	3,543	1.2
1936	3,063,000	52,429	17.1	2,509	47.9	1,271	23.7	32,926	10.8	206	392.9	22,666	7.4	3,741	1.2
1937	3,078,000	53,504	17.4	2,329	43.5	1,254	22.9	31,733	10.3	188	351.4	23,285	7.6	3,999	1.3
1938	3,099,000	54,746	17.7	2,308	42.2	1,250	22.3	30,385	9.8	165	297.7	20,732	6.7	3,568	1.2
1939	3,121,000	54,187	17.4	2,172	40.1	1,180	21.3	31,404	10.1	153	282.3	21,276	6.8	3,673	1.2
1940	3,138,000	56,324[c]	17.9	2,030	36.0	1,209	21.0	31,457	10.0	151	268.1	23,379	7.5	3,599	1.1
1941	3,140,000	58,043	18.5[b]	1,922	34.3	1,140	19.3	30,445	9.7	137	236.0	28,816	9.2	4,050	1.3
1942	3,053,000	64,504	21.2	2,030	31.5	1,366	20.7	30,639	10.0	109	169.0	24,860	8.1	3,905	1.3
1943	3,014,000	65,404	22.1	2,224	34.0	1,306	19.6	32,323	10.7	126	192.6	22,393	7.4	4,469	1.5
1944	2,980,000	61,928	21.1	1,950	31.5	1,183	18.7	31,373	10.5	113	182.5	21,190	7.1	5,326	1.8
1945	2,961,000	61,577	20.9	1,890	30.7	1,141	18.2	31,776	10.7	81	131.5	25,269	8.5	6,393	2.2
1946	3,167,000	74,868	23.7	2,235	29.9	1,300	17.1	31,965	10.1	101	134.9	38,964	12.3	8,197	2.6
1947	3,250,000	84,562	26.0	2,470	29.2	1,410	16.4	33,078	10.2	87	102.9	35,555	10.9	5,877	1.8
1948	3,314,000	81,814	24.8	2,147	26.2	1,357	16.3	32,535	9.8	83	101.4	32,579	9.8	5,075	1.5
1949	3,391,000	83,183	24.5	2,193	26.4	1,274	15.1	32,876	9.7	47	56.5	27,782	8.2	4,815	1.4
1950	3,449,000	82,364	23.9	2,098	25.5	1,241	14.8	33,573	9.7	35	42.5	29,081	8.4	4,845	1.4
1951	3,437,000	87,819	25.6	2,182	24.8	1,343	15.1	33,397	9.7	42	47.8	27,133	7.9	4,473	1.3
1952	3,463,000	88,941	25.7	2,160	24.3	1,267	14.0	33,887	9.8	42	47.2	24,737	7.1	4,847	1.4
1953	3,502,000	88,408	25.2	2,069	23.4	1,251	14.0	34,839	9.9	38	43.0	25,469	7.3	5,011	1.4
1954	3,599,000	91,570	25.4	2,002	21.9	1,216	13.1	33,709	9.4	34	37.1	24,921	6.9	4,887	1.4
1955	3,666,000	92,333	25.2	2,175	23.6	1,233	13.2	35,250	9.6	22	23.8	25,543	7.0	4,720	1.3
1956	3,740,000	93,496	.0	2,133	22.8	1,235	13.0	35,498	9.5	20	21.4	26,833	7.2	4,488	1.2
1957	3,802,000	96,398	25.4	2,145	22.3	1,278	13.1	37,185	9.8	35	36.3	25,723	6.8	4,336	1.1
1958	3,863,000	95,950	24.8	2,250	23.4	1,246	12.8	37,457	9.7	29	30.2	24,985	6.5	4,499	1.2
1959	3,915,000	98,518	25.2	2,295	23.3	1,222	12.3	37,166	9.5	34	34.5	25,637	6.5	4,657	1.2
1960[f]	3,967,000	99,493	25.1	2,173	21.8	1,341	13.3	38,121	9.6	27	27.1	24,573	6.2	3,672[e]	.9
1961	4,014,000	98,435	24.5	2,235	22.7	1,243	12.5	37,325	9.3	27	27.4	24,232	6.0	4,300	1.1
1962	4,043,000	94,497	23.4	1,929	20.4	1,114	11.7	38,332	9.5	26	27.5	24,114	6.0	4,547	1.1
1963	4,086,000	91,605	22.4	2,060	22.5	1,184	12.8	39,676	9.7	20	21.8	25,678	6.3	4,918	1.2
1964	4,151,000	88,910	21.4	1,848	20.8	1,112	12.4	38,872	9.4	16	18.0	26,832	6.5	5,214	1.3
1965	4,212,000	82,919	19.7	1,829	22.1	1,042	12.4	40,146	9.5	13	15.7	28,410	6.7	5,232	1.2
1966	4,262,000	80,412	18.9	1,640	20.4	958	11.8	40,336	9.5	21	26.1	28,473	6.7	5,293	1.2
1967	4,303,000	75,797	17.6	1,484	19.6	867	11.3	39,654	9.2	9	11.9	30,480	7.1	6,105	1.4
1968	4,332,000	74,257	17.1	1,453	19.6	838	11.2	41,323	9.5	9	12.1	33,019	7.6	7,260	1.7
1969	4,381,000	74,324	17.0	1,281	17.2	872	11.6	41,072	9.4	15	20.2	34,402	7.9	7,832	1.8
1970	4,425,000	77,455	17.5	1,308	16.9	817	10.4	40,820	9.2	6	7.7	34,415	7.8	8,930	2.0
1971	4,465,000	71,976	16.1	1,157	16.1	767	10.5	40,380	9.0	10	13.9	34,858	7.8	8,927	2.0
1972	4,512,000	64,719	14.3	984	15.2	680	10.4	42,074	9.3	9	13.9	38,608	8.6	10,492	2.3
1973	4,518,000	62,796	13.9	900	14.3	590	9.3	41,293	9.1	7	11.1	40,098	8.9	11,595	2.6
1974	4,538,000	65,150	14.3	898	13.8	579	8.8	40,811	9.0	3	4.6	38,248	8.4	12,470	2.7
1975	4,555,000	65,145	14.3	881	13.5	530	8.1	39,916	8.8	3	4.6	35,888	7.9	13,187	2.9
1976	4,578,000	65,042	14.2	818	12.6	540	8.2	40,191	8.8	6	9.2	36,024	7.9	14,579	3.2
1977	4,613,000	68,548	14.9	774	11.3	478	6.9	39,325	8.5	7	10.2	37,430	8.1	14,792	3.2
1978	4,645,000	68,573	14.8	769	11.2	421	6.1	40,285	8.7	8	11.7	38,189	8.2	16,129	3.5
1979	4,680,000	73,209	15.6	790	10.8	496	6.7	39,145	8.4	3	4.1	39,556	8.5	17,161	3.7
1980	4,714,000	74,763	15.9	763	10.2	549[d]	7.3	40,801	8.7	5	6.7	41,113	8.7	17,589	3.7
1981	4,735,000	74,309	15.7	768	10.3	571	7.7	40,495	8.6	3	4.0	41,114	8.7	18,459	3.9
1982	4,745,000	74,319	15.7	700	9.4	529	7.1	40,226	8.5	–	–	42,146	8.9	17,327	3.7

*See "Notes Pertaining to Table 7" Roman I-a and d for residency status.

The 1978 fetal death count for the State is deficient by 116. The certificate for these deaths were not received from the Milwaukee City Health Department until nine months after the filing deadline by which time the file preparation and tabulation had been completed.

Table 8

LEADING CAUSES OF DEATH BY SEX AND AGE GROUPS
Wisconsin, 1982

Page 1 of 5 (Resident Data)

Cause of Death	I.C.D.	Number of Deaths	Percent of deaths in this category*	1982 Rate**
All Ages - Total				
Total, all causes		40,226	100.0	847.8
Diseases of the heart	391-398,402,404,410-414,420-429	16,446	40.9	346.6
Cancer	140-208	8,979	22.3	189.2
Cerebrovascular disease	430-438	3,335	8.3	70.3
Accidents	800-949	1,597	4.0	33.7
Chronic obstructive pulmonary	490-496	1,072	2.7	22.6
Pneumonia and influenza	480-487	1,002	2.5	21.1
Diabetes mellitus	250	742	1.8	15.6
Atherosclerosis	440	671	1.7	14.1
Suicide	950-959	583	1.4	12.3
Other arterial disease	441-448	439	1.1	9.3
Cirrhosis of liver	571	414	1.0	8.7
Conditions of perinatal period	760-779	339	0.8	7.1
All Ages - Males				
Total, all causes		21,421	100.0	923.3
Diseases of the heart	391-398,402,404,410-414,420-429	8,692	40.6	374.7
Cancer	140-208	4,757	22.2	205.0
Cerebrovascular disease	430-438	1,426	6.7	61.5
Accidents	800-949	1,147	5.4	49.4
Chronic obstructive pulmonary	490-496	750	3.5	32.3
Pneumonia and influenza	480-487	559	2.6	24.1
Suicide	950-959	463	2.2	20.0
Diabetes mellitus	250	315	1.5	13.6
Other arterial disease	441-448	295	1.4	12.7
Cirrhosis of liver	571	263	1.2	11.3
Atherosclerosis	440	256	1.2	11.0
Conditions of perinatal period	760-779	192	0.9	8.3
All Ages - Females				
Total, all causes		18,805	100.0	775.5
Diseases of the heart	391-398,402,404,410-414,420-429	7,754	41.2	319.8
Cancer	140-208	4,222	22.5	174.1
Cerebrovascular disease	430-438	1,909	10.2	78.7
Accidents	800-949	450	2.4	18.6
Pneumonia and influenza	480-487	443	2.4	18.3
Diabetes mellitus	250	427	2.3	17.6
Atherosclerosis	440	415	2.2	17.1
Chronic obstructive pulmonary	490-496	322	1.7	13.3
Cirrhosis of liver	571	151	0.8	6.2
Conditions of perinatal period	760-779	147	0.8	6.1
Other arterial disease	441-448	144	0.8	5.9
Congenital anomalies	740-759	127	0.7	5.2
Suicide	950-959	120	0.6	4.9

*Percents are not calculated when a unit is less than 100 (in each age group) because they give an exaggerated impression of the numbers involved.

**Rates per 100,000 population. Rates based on fewer than 20 deaths are omitted because they are subject to large random fluctuations. The number "20" is arbitrary and is not set forth as a critical point distinguishing statistically reliable rates.

Table 8 (Cont.)

LEADING CAUSES OF DEATH BY SEX AND AGE GROUPS
Wisconsin, 1982
(Resident Data)

Page 2 of 5

Cause of Death	I.C.D.	Number of Deaths	Percent of deaths in this category*	1982 Rate**
Under 1 year - Males				
All causes		396	100.0	1015.4
Other perinatal conditions	760-766, 770-779	129	32.6	330.8
Congenital anomalies	740-759	91	23.0	233.3
Symptoms, signs and ill-defined	780-799	68	17.2	174.4
Birth trauma	767-769	61	15.4	156.4
Under 1 year - Females				
All causes		304	100.0	821.6
Other perinatal conditions	760-766, 770-779	104	34.2	281.1
Congenital anomalies	740-759	74	24.3	200.0
Birth trauma	767-769	42	13.8	113.5
Symptoms, signs and ill-defined	780-799	42	13.8	113.5
1-4 years - Males				
All causes		92		57.5
Accidents	800-949	39		24.4
Congenital anomalies	740-759	14		
Cancer	140-208	9		
1-4 years - Females				
All causes		56		36.8
Accidents	800-949	23		15.1
Congenital anomalies	740-759	11		
Cancer	140-208	3		
5-9 years - Males				
All causes		46		27.1
Accidents	800-949	25		14.7
Cancer	140-208	9		
5-9 years - Females				
All causes		29		18.0
Cancer	140-208	10		
Accidents	800-949	6		
10-14 years - Males				
All causes		56		31.1
Accidents	800-949	30		16.7
Cancer	140-208	4		
Heart	391-398,402,404,410-414,420-429	4		
10-14 years - Females				
All causes		28		16.3
Cancer	140-208	10		
Accidents	800-949	7		
Congenital anomalies	740-759	4		

*Percents are not calculated when a unit is less than 100 (in each age group) because they give an exaggerated impression of the numbers involved.

**Rates per 100,000 population. Rates based on fewer than 20 deaths are omitted because they are subject to large random fluctuations. The number "20" is arbitrary and is not set forth as a critical point distinguishing statistically reliable rates.

Table 8 (Cont.)

LEADING CAUSES OF DEATH BY SEX AND AGE GROUPS
Wisconsin, 1982

Page 3 of 5 (Resident Data)

Cause of Death	I.C.D.	Number of Deaths	Percent of deaths in this category*	1982 Rate**
15-24 years - Males				
All causes		571	100.0	130.7
Accidents	800-949	337	59.0	77.1
Suicide	950-959	114	20.0	26.1
Cancer	140-208	40	7.0	9.2
Homicide and legal intervention	960-978	28	4.9	6.4
Diseases of the heart	391-398,402,404,410-414,420-429	8	1.4	
15-24 years - Females				
All causes		173	100.0	39.9
Accidents	800-949	88	50.9	20.3
Cancer	140-208	21	12.1	4.8
Suicide	950-959	16	9.2	
Homicide and legal intervention	960-978	10	5.8	
Congenital anomalies	740-759	5	2.9	
25-34 years - Males				
All causes		481	100.0	120.3
Accidents	800-949	198	41.2	49.5
Suicide	950-959	91	18.9	22.8
Cancer	140-208	46	9.6	11.5
Diseases of the heart	391-398,402,404,410-414,420-429	36	7.5	9.0
Homicide and legal intervention	960-978	27	5.6	6.8
25-34 years - Females				
All causes		215	100.0	54.3
Cancer	140-208	55	25.6	13.9
Accidents	800-949	44	20.5	11.1
Suicide	950-959	24	11.2	6.1
Diseases of the heart	391-398,402,404,410-414,420-429	15	7.0	
Homicide and legal intervention	960-978	13	6.0	
35-44 years - Males				
All causes		526	100.0	195.5
Diseases of the heart	391-398,402,404,410-414,420-429	137	26.0	50.9
Accidents	800-949	106	20.2	39.4
Cancer	140-208	90	17.1	33.5
Suicide	950-959	53	10.1	19.7
Cirrhosis of liver	571	26	4.9	9.7
Homicide and legal intervention	960-978	18	3.4	
Cerebrovascular disease	430-438	16	3.0	
35-44 years - Females				
All causes		309	100.0	113.6
Cancer	140-208	114	36.9	41.9
Diseases of the heart	391-398,402,404,410-414,420-429	43	13.9	15.8
Accidents	800-949	34	11.0	12.5
Suicide	950-959	24	7.8	8.8
Cirrhosis of liver	571	11	3.6	
Cerebrovascular disease	430-438	9	2.9	

*Percents are not calculated when a unit is less than 100 (in each age group) because they give an exaggerated impression of the numbers involved.

**Rates per 100,000 population. Rates based on fewer than 20 deaths are omitted because they are subject to large random fluctuations. The number "20" is arbitrary and is not set forth as a critical point distinguishing statistically reliable rates.

Table 8 (Cont.)

LEADING CAUSES OF DEATH BY SEX AND AGE GROUPS
Wisconsin, 1982
(Resident Data)

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Cause of Death	I.C.D.	Number of Deaths	Percent deaths in this category*	1982 Rate**
45-54 years - Males				
All causes		1,289	100.0	605.2
Diseases of the heart	391-398,402,404,410-414,420-429	487	37.8	228.6
Cancer	140-208	345	26.8	162.0
Accidents	800-949	89	6.9	41.8
Suicide	950-959	70	5.4	32.9
Cirrhosis of liver	571	47	3.6	22.1
45-54 years - Females				
All causes		763	100.0	346.8
Cancer	140-208	332	43.5	150.9
Diseases of the heart	391-398,402,404,410-414,420-429	163	21.4	74.1
Cerebrovascular disease	430-438	49	6.4	22.3
Accidents	800-949	33	4.3	15.0
Cirrhosis of liver	571	31	4.1	14.1
55-64 years - Males				
All causes		3,128	100.0	1475.5
Diseases of the heart	391-398,402,404,410-414,420-429	1,296	41.4	611.3
Cancer	140-208	1,015	32.4	478.8
Chronic obstructive pulmonary	490-496	121	3.9	57.1
Cerebrovascular disease	430-438	114	3.6	53.8
Cirrhosis of liver	571	80	2.6	37.7
55-64 years - Females				
All causes		1,816	100.0	772.8
Cancer	140-208	780	43.0	331.9
Diseases of the heart	391-398,402,404,410-414,420-429	540	29.7	229.8
Cerebrovascular disease	430-438	97	5.3	41.3
Diabetes mellitus	250	45	2.5	19.1
Chronic obstructive pulmonary	490-496	44	2.4	18.7
65-69 years - Males				
All causes		2,526	100.0	3043.4
Diseases of the heart	391-398,402,404,410-414,420-429	1,108	43.9	1334.9
Cancer	140-208	750	29.7	903.6
Cerebrovascular disease	430-438	146	5.8	175.9
Chronic obstructive pulmonary	490-496	93	3.7	112.0
Accidents	800-949	48	1.9	57.8
65-69 years - Females				
All causes		1,572	100.0	1572.0
Cancer	140-208	574	36.5	574.0
Diseases of the heart	391-398,402,404,410-414,420-429	542	34.5	542.0
Cerebrovascular disease	430-438	97	6.2	97.0
Diabetes mellitus	250	56	3.6	56.0
Chronic obstructive pulmonary	490-496	52	3.3	52.0
70-74 years - Males				
All causes		3,007	100.0	4488.1
Diseases of the heart	391-398,402,404,410-414,420-429	1,321	43.9	1971.6
Cancer	140-208	754	25.1	1125.4
Cerebrovascular disease	430-438	202	6.7	301.5
Chronic obstructive pulmonary	490-496	160	5.3	238.8
Other arterial disease	441-448	63	2.1	94.0

*Percents are not calculated when a unit is less than 100 (in each age group) because they give an exaggerated impression of the numbers involved.

**Rates per 100,000 population. Rates based on fewer than 20 deaths are omitted because they are subject to large random fluctuations. The number "20" is arbitrary and is not set forth as a critical point distinguishing statistically reliable rates.

Table 8 (Cont.)

LEADING CAUSES OF DEATH BY SEX AND AGE GROUPS
Wisconsin, 1982
(Resident Data)

Cause of Death	I.C.D.	Number of Deaths	Percent of deaths in this category	1982 Rate**
70-74 years - Females				
All causes		2,095	100.0	2327.8
Diseases of the heart	391-398,402,404,410-414,420-429	854	40.8	948.9
Cancer	140-208	618	29.5	686.7
Cerebrovascular disease	430-438	184	8.8	204.4
Diabetes mellitus	250	65	3.1	72.2
Chronic obstructive pulmonary	490-496	65	3.1	72.2
Accidents	800-949	24	1.1	26.7
75-79 years - Males				
All causes		3,181	100.0	6915.2
Diseases of the heart	391-398,402,404,410-414,420-429	1,396	43.9	3034.8
Cancer	140-208	735	23.1	1597.8
Cerebrovascular disease	430-438	260	8.2	565.2
Chronic obstructive pulmonary	490-496	155	4.9	337.0
Pneumonia and influenza	480-487	111	3.5	241.3
Diabetes mellitus	250	65	2.0	141.3
75-79 years - Females				
All causes		2,619	100.0	3851.5
Diseases of the heart	391-398,402,404,410-414,420-429	1,193	45.6	1754.4
Cancer	140-208	622	23.7	914.7
Cerebrovascular disease	430-438	273	10.4	401.5
Diabetes mellitus	250	55	2.1	80.9
Chronic obstructive pulmonary	490-496	48	1.8	70.6
Pneumonia and influenza	480-487	36	1.4	52.9
80-84 years - Males				
All causes		2,753	100.0	10588.5
Diseases of the heart	391-398,402,404,410-414,420-429	1,280	46.5	4923.1
Cancer	140-208	502	18.2	1930.8
Cerebrovascular disease	430-438	290	10.5	1115.4
Chronic obstructive pulmonary	490-496	105	3.8	403.8
Pneumonia and influenza	480-487	97	3.5	373.1
Atherosclerosis	440	48	1.7	184.6
80-84 years - Females				
All causes		2,988	100.0	6495.7
Diseases of the heart	391-398,402,404,410-414,420-429	1,436	48.1	3121.7
Cancer	140-208	485	16.2	1054.3
Cerebrovascular disease	430-438	403	13.5	876.1
Pneumonia and influenza	480-487	83	2.8	180.4
Atherosclerosis	440	78	2.6	169.6
85 years and over - Males				
All causes		3,369	100.0	18716.7
Diseases of the heart	391-398,402,404,410-414,420-429	1,608	47.7	8933.3
Cancer	140-208	458	13.6	2544.4
Cerebrovascular disease	430-438	344	10.2	1911.1
Pneumonia and influenza	480-487	193	5.7	1072.2
Atherosclerosis	440	119	3.5	661.1
Chronic obstructive pulmonary	490-496	92	2.7	511.1
Accidents	800-949	64	1.9	355.6
85 years and over - Females				
All causes		5,838	100.0	13900.0
Diseases of the heart	391-398,402,404,410-414,420-429	2,957	50.7	7040.5
Cerebrovascular disease	430-438	789	13.5	1878.6
Cancer	140-208	598	10.2	1423.8
Atherosclerosis	440	282	4.8	671.4
Pneumonia and influenza	480-487	253	4.3	602.4
Diabetes mellitus	250	104	1.8	247.6

*Percents are not calculated when a unit is less than 100 (in each age group) because they give an exaggerated impression of the numbers involved.

**Rates per 100,000 population. Rates based on fewer than 20 deaths are omitted because they are subject to large random fluctuations. The number "20" is arbitrary and is not set forth as a critical point disginguishing statistically reliable rates.

Table 9

LIVE BIRTHS BY COUNTY
Wisconsin, 1973-1977 and 1978-1982

(Resident Data)

County	1973	1974	1975	1976	1977	Five year average 1973-1977	Five year rate	1978	1979	1980	1981	1982	Five year average 1978-1982	Five year rate
Total.....	62,796	65,150*	65,145	65,042	68,548	65,336	14.2	68,573*	73,209*	74,763*	74,309	74,327	73,036	15.5
Adams.....	142	128	145	140	127	137	12.0	163	162	179	177	175	171	12.7
Ashland.....	206	211	216	228	247	222	13.2	268	243	279	302	282	275	16.4
Barron.....	474	473	504	529	578	512	13.9	593	656	654	693	745	668	17.2
Bayfield.....	134	153	150	174	182	159	12.7	175	198	219	212	209	203	14.7
Brown.....	2,424	2,645	2,600	2,622	2,715	2,601	15.2	2,624	2,790	2,802	2,824	2,833	2,775	15.8
Buffalo.....	188	197	162	203	217	194	13.9	217	232	236	197	239	224	15.7
Burnett.....	128	118	133	157	151	137	12.7	154	215	167	203	179	184	14.9
Calumet.....	447	484	445	453	489	464	16.1	462	485	546	519	556	514	16.7
Chippewa.....	776	746	734	780	797	767	15.5	825	882	903	924	854	878	16.8
Clark.....	432	497	508	478	547	492	15.3	536	542	641	581	587	577	17.5
Columbia.....	555	584	566	549	590	569	13.4	637	623	667	668	682	655	15.2
Crawford.....	219	228	229	229	268	235	14.6	246	255	293	284	296	275	16.6
Dane.....	3,871	3,970	3,963	3,912	4,242	3,992	13.2	4,183	4,469	4,685	4,638	4,684	4,532	14.0
Dodge.....	970	1,034	1,034	1,015	1,112	1,033	14.2	1,107	1,110	1,186	1,173	1,187	1,153	15.4
Door.....	281	298	334	332	411	331	14.7	374	409	412	397	406	400	16.0
Douglas.....	594	650	627	689	606	633	14.1	657	688	702	713	676	687	15.5
Dunn.....	380	433	396	420	460	418	13.2	466	510	537	536	551	520	15.2
Eau Claire.....	944	972	935	959	1,039	970	13.4	1,062	1,083	1,117	1,265	1,255	1,156	14.7
Florence.....	46	43	31	47	63	46	13.1	36	69	55	64	66	58	13.9
Fond du Lac.....	1,279	1,308	1,258	1,311	1,413	1,314	15.0	1,361	1,461	1,512	1,460	1,409	1,441	16.2
Forest.....	124	122	108	127	141	124	15.1	150	131	140	161	147	146	16.1
Grant.....	738	748	781	821	839	785	15.8	791	867	867	814	812	830	16.0
Green.....	406	426	447	440	425	429	14.9	428	456	483	471	514	470	15.7
Green Lake.....	250	224	251	263	218	241	13.9	248	306	262	325	287	286	15.6
Iowa.....	256	282	295	291	325	290	14.9	268	356	345	342	340	330	16.7
Iron.....	80	72	78	78	84	78	11.6	66	70	84	72	86	76	11.3
Jackson.....	221	226	208	216	284	231	14.6	273	291	276	271	291	280	16.6
Jefferson.....	839	964	909	885	948	909	14.2	918	1,034	973	1,029	952	981	14.8
Juneau.....	264	288	272	278	328	286	15.1	333	379	347	355	331	349	16.6
Kenosha.....	1,662	1,750	1,766	1,679	1,767	1,725	13.9	1,711	1,796	1,826	1,815	1,789	1,787	14.5
Kewaunee.....	267	308	271	299	282	285	14.4	330	327	323	347	311	328	16.8
La Crosse.....	1,094	1,110	1,121	1,119	1,195	1,128	13.0	1,250	1,318	1,350	1,396	1,372	1,337	14.7
Lafayette.....	251	278	267	303	291	278	15.5	302	289	289	339	300	304	17.5
Langlade.....	257	276	290	273	305	280	14.1	308	301	287	313	271	296	14.8
Lincoln.....	373	342	320	311	396	348	13.8	367	423	406	406	383	397	15.0
Manitowoc.....	1,134	1,108	1,138	1,209	1,195	1,157	14.0	1,232	1,290	1,338	1,262	1,345	1,293	15.6
Marathon.....	1,550	1,688	1,618	1,675	1,752	1,657	15.9	1,707	1,934	1,930	1,806	1,804	1,836	16.5

*One live birth in each of the following years: 1974, 1978, 1979 and 1980, counties unknown, included in totals.

Rates per 1,000 population.

Table 9 (Cont.)

LIVE BIRTHS BY COUNTY
Wisconsin, 1973-1977 and 1978-1982

(Resident Data)

County	1973	1974	1975	1976	1977	Five year average 1973-1977	Five year rate	1978	1979	1980	1981	1982	Five year average 1978-1982	Five year rate
Marinette	449	470	501	500	571	498	13.2	599	580	662	671	578	618	15.7
Marquette	107	141	152	124	168	138	13.3	154	172	167	163	183	168	14.4
Menominee	72	56	64	76	83	70	25.0	96	99	111	96	108	102	30.2
Milwaukee	14,862	14,893	14,891	14,450	14,898	14,799	14.6	14,555	15,680	15,842	15,806	16,064	15,589	16.2
Monroe	451	467	482	481	491	474	14.2	503	555	607	582	638	577	16.5
Oconto	356	378	413	428	410	397	14.5	460	446	469	435	461	454	15.7
Oneida	322	337	384	378	396	363	12.8	379	444	423	467	429	428	13.7
Outagamie	1,733	1,950	2,009	1,942	2,058	1,938	15.4	2,070	2,268	2,340	2,229	2,172	2,216	17.2
Ozaukee	727	818	843	820	978	837	13.0	898	936	992	963	932	944	14.1
Pepin	100	98	111	109	108	105	13.8	119	157	128	127	112	129	17.3
Pierce	438	434	428	429	452	436	15.0	452	504	507	527	532	504	16.2
Polk	415	443	458	430	434	436	14.4	496	499	506	561	560	524	16.2
Portage	752	763	764	781	831	778	14.9	926	841	928	891	896	896	15.6
Price	211	215	206	215	227	215	13.5	218	247	242	232	243	236	14.9
Racine	2,376	2,633	2,587	2,563	2,620	2,556	14.4	2,697	2,857	2,980	2,855	2,717	2,821	16.3
Richland	222	227	267	210	257	237	14.1	274	270	275	302	281	280	16.0
Rock	1,977	2,050	1,964	2,003	2,005	2,000	14.8	2,109	2,222	2,256	2,115	2,196	2,180	15.6
Rusk	195	228	221	251	239	227	14.8	230	251	222	251	259	243	15.6
St. Croix	587	636	639	632	700	639	16.5	739	741	835	773	762	770	17.8
Sauk	572	621	625	597	606	604	14.8	603	692	654	696	691	667	15.3
Sawyer	148	157	158	161	157	156	13.7	175	182	219	239	228	209	16.3
Shawano	478	495	475	438	478	473	13.6	516	549	528	543	550	537	14.9
Sheboygan	1,452	1,481	1,436	1,502	1,505	1,475	14.7	1,406	1,559	1,588	1,595	1,583	1,547	15.3
Taylor	259	289	293	308	321	294	15.9	332	357	379	339	370	355	18.9
Trempealeau	339	351	347	338	357	346	14.2	364	384	373	416	400	388	14.8
Vernon	331	335	291	345	340	328	13.0	336	384	408	440	408	395	15.4
Vilas	178	143	139	156	190	161	12.0	172	200	228	218	226	209	12.6
Walworth	829	784	804	853	991	852	13.0	969	944	1,026	971	1,053	993	13.9
Washburn	164	146	190	170	195	173	13.8	180	222	226	202	208	208	15.8
Washington	1,175	1,195	1,197	1,226	1,318	1,222	16.0	1,342	1,428	1,442	1,422	1,387	1,404	16.5
Waukesha	2,965	3,100	3,250	3,232	3,507	3,211	12.6	3,596	3,841	3,841	3,824	3,808	3,782	13.5
Waupaca	568	524	568	551	598	562	13.7	683	673	697	690	677	684	16.0
Waushara	211	188	235	223	263	224	13.9	208	276	243	236	267	246	13.3
Winnebago	1,576	1,730	1,681	1,627	1,650	1,653	12.6	1,754	1,882	1,901	1,867	1,945	1,870	14.2
Wood	943	989	962	999	1,117	1,002	14.7	1,134	1,216	1,199	1,211	1,192	1,191	16.4

Table 9 (Cont.)

DEATHS BY COUNTY
Wisconsin, 1973-1977 and 1978-1982

(Resident Data)

County	1973	1974	1975	1976	1977	Five year average 1973-1977	Five year rate	1978	1979	1980	1981	1982	Five year average 1978-1982	Five year rate
Total.....	41,293	40,811*	39,916*	40,191*	39,325	40,307	8.8	40,285	39,145*	40,801	40,495	40,226	40,190	8.5
Adams.....	123	144	154	154	134	142	12.5	134	157	136	137	148	142	10.6
Ashland.....	205	240	213	248	228	226	13.5	193	212	219	207	196	205	12.2
Barron.....	453	416	394	394	383	408	11.1	406	403	411	426	406	410	10.6
Bayfield.....	161	168	138	146	165	155	12.4	160	152	146	158	151	153	11.1
Brown.....	1,176	1,142	1,112	1,236	1,129	1,159	6.8	1,188	1,122	1,181	1,287	1,244	1,204	6.9
Buffalo.....	149	124	147	158	146	145	10.4	132	144	129	138	149	138	9.6
Burnett.....	142	165	148	132	128	143	13.2	143	120	168	149	146	145	11.8
Calumet.....	210	226	180	193	210	204	7.1	205	219	205	214	202	209	6.8
Chippewa.....	393	437	437	451	448	433	8.8	443	436	456	486	484	461	8.8
Clark.....	333	339	309	328	317	325	10.1	362	285	316	325	366	331	10.1
Columbia.....	452	494	443	459	423	454	10.7	424	446	436	421	424	430	9.9
Crawford.....	156	170	183	169	163	168	10.4	156	159	167	176	160	164	9.9
Dane.....	1,912	1,894	1,825	1,872	1,788	1,858	6.1	1,943	1,785	1,928	2,000	1,865	1,904	5.9
Dodge.....	693	704	676	668	679	684	9.4	705	640	678	718	724	693	9.2
Door.....	285	255	254	230	272	259	11.5	256	254	262	246	272	258	10.3
Douglas.....	513	538	490	523	423	497	11.0	502	504	457	454	476	479	10.8
Dunn.....	284	269	279	293	226	270	8.5	278	250	240	248	263	256	7.5
Eau Claire.....	562	599	607	600	620	598	8.2	598	569	646	626	624	613	7.8
Florence.....	41	45	42	54	48	46	13.1	48	42	52	49	58	50	12.0
Fond du Lac.....	823	815	786	769	791	797	9.1	782	797	824	771	747	784	8.8
Forest.....	87	83	96	92	115	95	11.6	114	109	104	123	102	110	12.2
Grant.....	466	459	425	490	469	462	9.3	492	440	454	479	418	457	8.8
Green.....	307	311	284	282	309	299	10.4	314	282	311	299	289	299	10.0
Green Lake.....	209	211	205	190	231	209	12.0	227	217	208	215	218	217	11.8
Iowa.....	222	211	205	222	201	212	10.9	215	174	204	221	162	195	9.8
Iron.....	85	98	86	100	101	94	14.0	96	84	93	90	95	92	13.7
Jackson.....	191	193	173	164	206	185	11.7	202	163	179	166	189	180	10.7
Jefferson.....	594	539	558	585	574	570	8.9	607	535	605	502	570	564	8.5
Juneau.....	265	224	218	224	202	227	11.9	220	235	221	247	224	229	10.9
Kenosha.....	1,055	1,025	1,002	1,008	1,008	1,020	8.2	964	1,007	1,093	1,021	964	1,010	8.2
Kewaunee.....	219	174	169	173	205	188	9.5	180	165	166	192	194	179	9.2
La Crosse.....	752	775	739	745	749	752	8.7	799	780	768	747	765	772	8.5
Lafayette.....	205	171	163	173	156	174	9.7	158	163	139	206	172	168	9.6
Langlade.....	213	212	208	184	201	204	10.3	239	207	207	239	226	224	11.2
Lincoln.....	286	303	255	265	280	278	11.0	264	252	284	293	317	282	10.6
Manitowoc.....	812	812	755	737	704	764	9.2	748	719	779	750	781	755	9.1
Marathon.....	904	831	752	801	786	815	7.8	834	815	853	769	816	817	7.3

*Two deaths in 1974, 5 in 1975, 1 in 1976 and 3 in 1979, counties unknown, included in totals.

Table 9 (Cont.)

DEATHS BY COUNTY
Wisconsin, 1973-1977 and 1978-1982

(Resident Data)

County	1973	1974	1975	1976	1977	Five year average 1973-1977	Five year rate	1978	1979	1980	1981	1982	Five year average 1978-1982	Five year rate
Marinette.....	452	416	476	443	450	447	11.8	465	449	446	473	406	448	11.4
Marquette.....	141	127	136	126	128	132	12.7	157	128	134	135	165	144	12.3
Menominee.....	20	30	22	30	31	27	9.6	33	30	36	38	33	34	10.1
Milwaukee.....	10,081	9,838	9,524	9,436	9,045	9,585	9.4	9,088	8,857	9,278	8,980	8,915	9,024	9.4
Monroe.....	322	318	345	310	324	324	9.7	325	333	339	351	385	347	9.9
Oconto.....	330	305	288	320	325	314	11.5	290	320	300	333	304	309	10.6
Oneida.....	291	304	277	290	312	295	10.4	285	270	316	293	339	301	9.6
Outagamie.....	836	942	837	884	924	885	7.0	844	854	895	945	884	884	6.9
Ozaukee.....	385	405	387	371	391	388	6.0	419	406	437	421	417	420	6.3
Pepin.....	85	74	83	72	75	78	10.3	90	70	107	91	95	91	12.2
Pierce.....	236	255	239	249	231	242	8.3	204	187	234	227	217	214	6.9
Polk.....	330	307	339	330	320	325	10.8	343	328	319	339	362	338	10.4
Portage.....	387	363	375	390	375	378	7.2	378	347	360	398	405	378	6.6
Price.....	172	220	209	183	151	187	11.8	214	196	211	198	192	202	12.8
Racine.....	1,376	1,380	1,366	1,373	1,343	1,368	7.7	1,387	1,379	1,393	1,390	1,327	1,375	7.9
Richland.....	197	164	211	169	156	179	10.7	181	167	184	172	177	176	10.1
Rock.....	1,199	1,163	1,195	1,185	1,097	1,168	8.7	1,174	1,119	1,205	1,136	1,176	1,162	8.3
Rusk.....	153	165	192	150	140	160	10.5	165	162	135	154	146	152	9.8
St. Croix.....	313	303	292	343	328	316	8.1	324	343	303	317	360	329	7.6
Sauk.....	419	418	430	404	438	422	10.4	409	387	433	442	420	418	9.6
Sawyer.....	167	139	152	151	141	150	13.2	146	144	155	166	159	154	12.0
Shawano.....	369	391	361	403	396	384	11.1	401	377	414	395	391	396	11.0
Sheboygan.....	978	991	980	929	948	965	9.6	906	929	954	896	876	912	9.0
Taylor.....	162	165	168	162	175	166	9.0	179	186	159	186	194	181	9.6
Trempealeau.....	263	290	277	303	306	288	11.9	313	291	314	296	271	297	11.4
Vernon.....	351	308	307	265	325	311	12.3	278	313	325	288	255	292	11.4
Vilas.....	143	171	164	161	183	164	12.2	198	177	204	185	210	195	11.8
Walworth.....	655	616	666	651	600	638	9.8	612	634	626	623	645	628	8.8
Washburn.....	134	150	150	156	157	149	11.9	153	147	136	123	154	143	10.9
Washington.....	549	504	467	508	548	515	6.7	563	542	562	531	553	550	6.5
Waukesha.....	1,512	1,485	1,500	1,586	1,480	1,513	5.9	1,646	1,665	1,648	1,681	1,756	1,679	6.0
Waupaca.....	483	516	525	545	483	510	12.4	569	567	618	619	606	596	13.9
Waushara.....	240	200	214	191	195	208	12.9	210	195	214	201	211	206	11.1
Winnebago.....	1,090	1,048	1,110	1,042	1,076	1,073	8.2	1,080	1,061	1,099	1,076	1,062	1,076	8.2
Wood.....	534	522	537	567	510	534	7.8	525	539	583	601	551	560	7.7

NATALITY

Since 1940, fertility patterns of Wisconsin women of childbearing age have shown a double reversal of trend. 1940 was the end of a long period of declining fertility. Thereafter, the fertility rates increased steadily through 1960, especially for women in their twenties. In 1960, we had 13,000 fewer women aged 20-24, for instance, than in 1940, but we had approximately 16,500 more births to this age group, a 98% increase in births.

Text Table 1 summarizes the changing fertility rates of women 20-24 over the past 42 years. From an historic low in 1940 of 128.7 per thousand, it rose by 1950 to 208.5, an increase of nearly 80 per thousand. In the fifties, it rose another 76 per thousand to 284.0. In the sixties, the decline was even more dramatic than the previous increase, 117 per thousand; 1970 to 1982 saw a further decline of 59.2 per thousand.

Text Table 1

FERTILITY RATES FOR WOMEN 20-24
(Births per 1000 Women)
Wisconsin, 1940-1982

Year	Women 20-24	Resident Live Births	Rate per 1000 women
1940	130,594	16,803	128.7
1950	124,815	26,018	208.5
1960	117,347	33,322	284.0
1970	178,952	29,822	166.6
1971	195,000	27,722	142.2
1972	201,000	23,736	118.1
1973	193,000	22,139	114.7
1974	210,000	23,614	112.4
1975	205,000	23,137	112.9
1976	208,000	22,531	108.3
1977	225,000	23,516	104.5
1978	221,000	23,197	105.0
1979	224,000	24,825	110.8
1980	226,000	25,319	112.0
1981	229,000	24,776	108.2
1982	228,000	24,477	107.4

The change since 1960 has shown a dramatic reversal to lower fertility rates. The decline in fertility rates by age has ranged from 76% for women 35 years and older to 38% for those under twenty. In 1982, the rates for all ages are now below the 1950 rates, and for women 20 and older the rates are now below the 1940 rates (Text Table 2).

Text Table 2

AGE-SPECIFIC FERTILITY RATES
(Per 1000 Women in Each Age Group)
Wisconsin, 1940-1982

	Census Year						
Age Group	1940	1950	1960	1970	1980	1981	1982
15-19	29.9	48.9	64.4	45.1	39.9	39.9	39.8
20-24	128.7	208.6	284.0	166.6	112.1	108.2	107.4
25-29	131.4	192.3	235.3	161.9	127.5	125.5	124.9
30-34	87.9	121.8	141.0	82.6	67.3	66.1	66.1
35-39	49.2	61.4	75.6	39.7	19.0	19.4	20.4
40-44	17.0	17.7	21.7	11.4	4.0	3.8	3.6
45+	7.4	5.5	5.5	3.1	0.2	0.3	0.2
Total Fertility Rate	2228	3259	4116	2540	1849	1815	1811

The row labelled "Total Fertility Rate" (TFR) summarized the changes in this measure of fertility. The rate is computed by summing the age-specific rates for all childbearing ages and multiplying by the number of years in the interval (5). It can be interpreted as the number of children that would be born to a cohort of one thousand women if, at all childbearing ages, they bore children at the age-specific rates observed in the reference year. Since, at present death rates and with a sex ratio at birth of 105 males per 100 females, it requires a little over 2,100 births per thousand females to replace themselves in the next generation, the total fertility rate gives us a measure of the fertility growth factor in the population. Thus, as the TFR exceeds 2,100, the next generation will have a larger childbearing population than the present and when the TFR declines below 2,100 for any extended period, the next childbearing generation will be smaller.

In 1940, the TFR for Wisconsin was very close to replacement. By 1950 it had risen by 46% to 3,259, and by 1960 by 85% to 4,116. Had that TFR continued, the childbearing population would have doubled in a single generation. The decline of the TFR in the sixties was greater than the rise in either the forties or the fifties, and the single year decline between 1971 and 1972 shows the most rapid decline of any year for which we have detailed data. The TFR appears to have "bottomed out" in the late 1970's, as the number of births did earlier in the 1970's. In 1982, the 1811 value is still 14% below replacement fertility level.

MORTALITY

Between 1910 and 1982, the crude death rate for Wisconsin residents decreased from 12.1 per 1,000 population to 8.5. (Table 7 is Summary of Vital Statistics, p. 15). The 1979 crude death rate of 8.4 is the lowest ever recorded in Wisconsin. In contrast, the highest death rate (13.6) was observed in 1918, attributable largely to the influenza and pneumonia epidemic in that year--military deaths are excluded from these tabulations. (Data for years 1910 thru 1929 appear in the 1979 Public Health Statistics report).

Since 1919, the crude death rate fluctuated considerably for a period of about thirty years. The crude death rate from 1948 until 1969 was relatively stable--9.6 per thousand. This apparent stability represents the cancellation of two contrary trends: (1) a gradual aging of the population with its tendency to increase the number of deaths and death rate, and (2) a gradual downward trend in the age-specific death rates.

In 1982, 40,226 deaths occurred to Wisconsin residents; 21,421 decedents were male and 18,805 female. The crude death rate for males (9.2 per 1,000 population) was considerably higher than for females 7.8. This is true at nearly every age, as shown below.

Text Table 3

TOTAL DEATH AND DEATH RATES BY SEX AND AGE GROUPS
Wisconsin, 1982

	Males		Females	
Age Groups	Number	Rate*	Number	Rate*
Total	21,421	9.2	18,805	7.8
Under 1 year	396	10.2	304	8.2
1- 4	92	0.6	56	0.4
5- 9	46	0.3	29	0.2
10-14	56	0.3	28	0.2
15-24	571	1.3	173	0.4
25-34	481	1.2	215	0.5
35-44	526	2.0	309	1.1
45-54	1,289	6.1	763	3.5
55-64	3,128	14.8	1,816	7.7
65-69	2,526	30.4	1,572	15.7
70-74	3,007	44.9	2,095	23.3
75-79	3,181	69.2	2,619	38.5
80-84	2,753	105.9	2,988	65.0
85+	3,369	187.2	5,838	139.0
Unk.				

*Rate per 1,000 population.

Leading Causes of Death

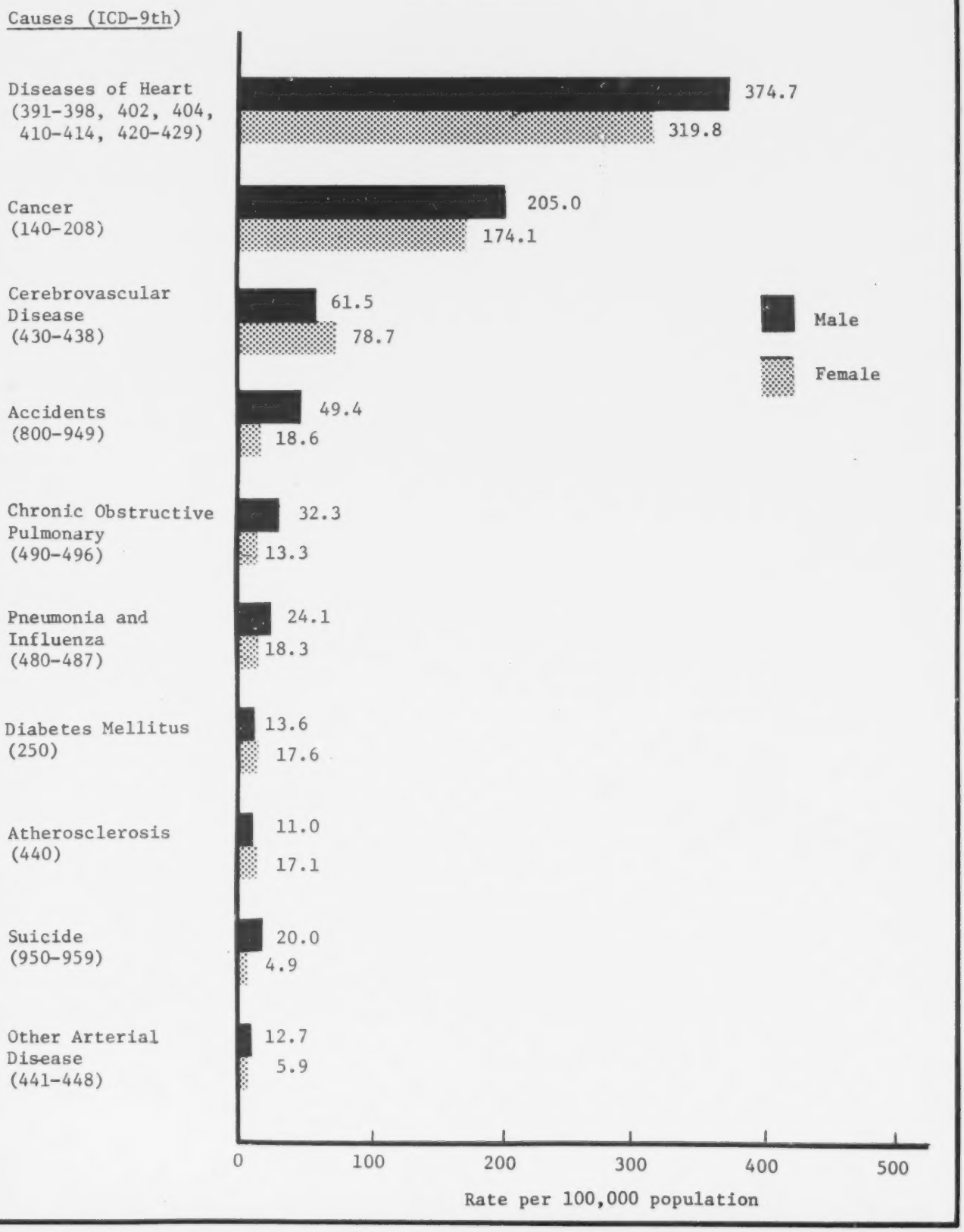
The first five leading causes of death for 1982 retained their respective standings when compared to 1981. The leading causes of death and cause-specific rates per 100,000 population are displayed in Table 8 in the Summary of Vital Events (page 16) and Figure 6. Heart disease, cancer and cerebrovascular disease together accounted for 72 percent of all Wisconsin deaths in 1982.

The most significant change in age-specific mortality is the accelerated decline in death rates for the elderly. Earlier declines in this century had affected the death rates of the young, but since 1965, the greatest decline appeared in the rates in age groups 65-74, 75-84 and 85+. The cause-specific changes are principally in the cardiovascular groups.

Accidents were the leading cause of death for all ages from 1 to 34, accounting for 45.6 percent of all deaths in these years of life. Among persons aged 15 to 34, 50.9% of male decedents and 34.0% of female decedents died from accidental causes. 59.0% of the 571 male decedents in the age group 15-24 died in accidents, and approximately 74% of these accidental deaths (337) were due to motor vehicle accidents.

Between ages 35 and 64, cancer was the leading cause of death among females, accounting for 42.5% of deaths in this age range. Among males, however, the leading cause of death at all ages over 44 was heart disease. This cause accounted for 44.1% of all deaths. These differences regarding the order of importance of certain diseases between the sexes begin to fade away at age 55, as heart disease, cancer and cerebrovascular disease completely dominate the leading causes of death.

Figure 6
LEADING CAUSES OF DEATH BY SEX
Wisconsin, 1982
(Resident Data)



MORBIDITY

Wisconsin public health statutes require physicians, nurses, and "anyone with knowledge of a communicable disease" to report cases of communicable disease to local city and county health officers. The Wisconsin Communicable and Acute Disease Report form is the most common form of reporting. Reports are also received via telephone calls, letters, laboratory reports, surveillance forms and death certificates.

Morbidity data are organized, recorded, and examined on a weekly basis for disease trends, including fluctuations in morbidity, seasonal variation, changes in disease distribution, and characteristics of the natural history of endemic, epidemic, or sporadic diseases. Each week morbidity data are published in the Morbidity, Mortality Weekly Report (MMWR) of the Centers for Disease Control (CDC). This publication also features informational material pertinent to communicable disease control activities on local, state, and national levels.

Morbidity reporting from physicians, hospitals, clinics, and laboratories is the cornerstone of an effective state disease surveillance and epidemiology program. The collection of demographic and epidemiologic information is crucial to monitor disease trends, identify outbreaks, locate high risk populations, assess control efforts and determine new and emerging public health problems including newly recognized diseases (e.g., toxic-shock syndrome) and illness associated with resistant organisms (e.g., penicillinase-producing N. gonorrhoeae). In addition to statewide reporting, cooperative efforts in the area of communicable disease control are made with other state health departments and the CDC. These efforts contribute to an effective overall communicable disease prevention and control program for the nation.

Tables 41 and 43 contain final figures on the reported incidence of a portion of the notifiable (reportable) diseases in Wisconsin for 1982. Data are submitted to the Section of Acute and Communicable Disease Epidemiology (ACDE), Bureau of Community Health and Prevention Division of Health, through the statewide morbidity reporting system. The degree of completeness of the morbidity data published in this report is influenced by the interests and priorities of the various reporting sources; however, the degree of underreporting is thought to remain consistent over time allowing data comparison over the years.

Table 41

CASES FROM REPORTABLE DISEASE BY COUNTY
Wisconsin, 1982

P. 1 of 4 pages (Resident Data)

County	Aseptic Meningitis (Viral) 047 Cases	Brucellosis 023 Cases	Chickenpox 052 Cases	Meningococcal Infections 036 Cases	Mumps 072 Cases	Pertussis (Whooping Cough) 033 Cases	Rabies in Animals 071 Cases	Rubella (German) (Measles) 056 Cases
State Total...	148	-	19,268*	77	135	41	192	50
Adams.....								
Ashland.....			115	1		1	2	1
Barron.....				2		1	4	
Bayfield.....								
Brown.....	7		1,320	1	4		2	1
Buffalo.....			2		1		2	
Burnett.....							1	
Calumet.....			47	1	1		1	
Chippewa.....	1		4				7	
Clark.....			2	1		3	10	
Columbia.....			44				4	
Crawford.....							1	1
Dane.....	17		2,994	6	5	1	14	
Dodge.....	2		273				1	
Door.....	1		18					
Douglas.....			206					
Dunn.....			2	1	1		4	1
Eau Claire....			2	2		1	3	
Florence.....			7					
Fond du Lac...	1		492	1		1	7	
Forest.....	1							
Grant.....	2		1				3	
Green.....	1		36	1			6	
Green Lake....	1		17				2	
Iowa.....	1		6				2	
Iron.....			1					
Jackson.....							1	
Jefferson.....	2		212		1		2	
Juneau.....			38	1	1			
Kenosha.....	2		1,527		1		2	1
Kewaunee.....			27	1				
La Crosse.....			118	5	2	2	12	
Lafayette.....			17				1	
Langlade.....	1		9				2	
Lincoln.....			3	1				
Manitowoc.....	2		252		1		2	1
Marathon.....	8		229	7	1	12	5	
Marinette.....	4		102	1				
Marquette.....								
Menominee.....	1		38	1				

*Includes 325 cases, counties unknown.

Table 41 (Cont.)

CASES FROM REPORTABLE DISEASE BY COUNTY
Wisconsin, 1982

P. 2 of 4 pages (Resident Data)

County	Aseptic Meningitis (Viral) 047 Cases	Brucellosis 023 Cases	Chickenpox 052 Cases	Meningococcal Infections 036 Cases	Mumps 072 Cases	Pertussis (Whooping Cough) 033 Cases	Rabies in Animals 071 Cases	Rubella (German) (Measles) 056 Cases
Milwaukee.....	48		6,384	20	107	7	5	38
Monroe.....	2		40	1	1	1	4	
Oconto.....			18					1
Oneida.....	2		67		1	2		
Outagamie.....			728	1	1		2	
Ozaukee.....			53			1		
Pepin.....								
Pierce.....			82	1				
Polk.....	1		5		1		2	
Portage.....			45			1		
Price.....							1	
Racine.....	10		1,132	3		1	3	1
Richland.....			5				1	
Rock.....	4		898	4	2		11	2
Rusk.....			13				1	
St. Croix.....	2		1			2	9	
Sauk.....	1		3	1	2		2	
Sawyer.....			4	2				
Shawano.....			25				5	
Sheboygan.....	1		248		1		2	
Taylor.....				1			8	
Trempealeau...			1	4			1	
Vernon.....	2						3	
Vilas.....	7		18			1		
Walworth.....	2		8				11	
Washburn.....								
Washington....	1		107	1			4	
Waukesha.....	8		325	3		1	3	1
Waupaca.....			10				4	1
Waushara.....			8					
Winnebago.....	2		410	1			1	
Wood.....			144			2	6	

Table 41 (Cont.)

CASES FROM REPORTABLE DISEASE BY COUNTY
Wisconsin, 1982

P. 3 of 4 pages (Resident Data)

County	Rubeola (Measles)	Salmonellosis (excluding typhoid fever)	Shigellosis	Tuberculosis	Viral Hepatitis			
	055	003	004	010-018	070			
					Case Type			
	Cases	Cases	Cases	Cases	A	B	Non: A & B	Unspec.
State Total...		1,111	177	208	337	158	26	20
Adams.....		1						
Ashland.....		5	1					
Barron.....		15		5				
Bayfield.....					1	1		
Brown.....		43	3	11	10	4		1
Buffalo.....		4						
Burnett.....		3				1		2
Calumet.....		7		2				
Chippewa.....		14		1				
Clark.....		12	7					
Columbia.....		6		1	3	2		
Crawford.....		5			3			
Dane.....		97	14	12	45	38	4	3
Dodge.....		10	1	1	3	1	1	
Door.....		6			1	1		
Douglas.....		7		3	3	2		
Dunn.....		1	1		1		1	
Eau Claire....		25	2	3	4	5		
Florence.....								
Fond du Lac...		18		4	1	1		
Forest.....		1			2	1		
Grant.....		9		3	1	2	1	1
Green.....		8			7			1
Green Lake....		3	1			1		
Iowa.....		1		1	1			
Iron.....		1						
Jackson.....		7	8		2			
Jefferson.....		11			2	1		
Juneau.....		2				1		
Kenosha.....		38	28	7	4	1	1	2
Kewaunee.....		15			15	1		
La Crosse.....		53		3	6	3	1	
Lafayette.....				2	1			
Langlade.....		3			3			
Lincoln.....		8						
Manitowoc.....		12		1		4		1
Marathon.....		23		2	4	5	1	1
Marinette.....		3		1	1			1
Marquette.....		3						
Menominee.....				2				

Table 41 (Cont.)

CASES FROM REPORTABLE DISEASE BY COUNTY
Wisconsin, 1982

P. 4 of 4 pages (Resident Data)

County	Rubeola (Measles) 055 Cases	Salmonellosis (excluding typhoid fever) 003 Cases	Shigellosis 004 Cases	Tuberculosis 010-018 Cases	Viral Hepatitis 070 Case Type A	B	Non: A & B	Unspec.
Milwaukee.....		246	78	75	139	46	8	2
Monroe.....		29		2				
Oconto.....		2		1	1		2	
Oneida.....		3		1				
Outagamie.....		32	2	3	1	2		1
Ozaukee.....		11	2	1				
Pepin.....		1				1		
Pierce.....		6						
Polk.....		1	3			2		
Portage.....		8		2				
Price.....		2			1			
Racine.....		45	6	9	3	7	1	
Richland.....		5		1				
Rock.....		31	3	5	20	1	2	1
Rusk.....				1				
St. Croix.....		5						
Sauk.....		9		4	1	3	1	
Sawyer.....		1		3				
Shawano.....		3		1	14			
Sheboygan.....		4		4	2	2		1
Taylor.....								
Trempealeau...		13		3		1		
Vernon.....		4						
Vilas.....		4		1				
Walworth.....		10	2	5	2	2		1
Washburn.....		11		1	1		1	
Washington....		21		2	6	3		
Waukesha.....		60	8	10	15	7		
Waupaca.....		6						
Waushara.....		7	5	1	3			
Winnebago.....		32	2	3	1			
Wood.....		19		4	3	5	1	1

Table 43

CASES FROM REPORTABLE DISEASE BY MONTH
Wisconsin, 1982

(Resident Data)

Reportable Diseases	9th Rev. ICD	Cases		Jan.	Feb.	Mar.	Apr.	May
		Number	Rate*	Cases	Cases	Cases	Cases	Cases
Aseptic Meningitis	047	147	3.1		2	3	1	2
Brucellosis	023	-						
Chickenpox	052	19268	405.1	2454	2931	3760	2594	3183
Meningococcal Infections	036	77	1.6	8	5	6	5	9
Mumps	072	135	2.8	13	49	8	4	4
Pertussis (Whooping Cough)	033	41	0.9	6	4	10		2
Poliomyelitis (acute)	045	-						
Rabies in Animals	071	192	4.0	10	20	17	10	14
Rheumatic Fever (acute)	390	2				1		
Rubella (German Measles)	056	50	1.1	2	9	4	8	4
Rubeola (Measles)	055	-						
Salmonellosis(exc.typhoid fev.)	003	1111	23.4	100	88	75	59	70
Shigellosis (Dysentery)	004	177	3.7	17	14	9	11	10
Tuberculosis	010-018	208	4.4	14	16	15	24	12
Viral Hepatitis:	070							
Type A		337*	7.1	29	29	23	39	34
Type B		158	3.3	9	9	12	14	18
Non: A & B		26*	0.5	1	1	3	2	2
Unspec.		20	0.4	1	3	2	1	2

*One each of type A and Non A and B Viral Hepatitis, included in total.

Reportable Diseases	9th Rev. ICD	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
		Cases	Cases	Cases	Cases	Cases	Cases	Cases
Aseptic Meningitis	047	8	22	51	25	16	15	2
Brucellosis	023							
Chickenpox	052	1438	675	150	163	317	511	1092
Meningococcal Infections	036	5	3	3	11	5	11	6
Mumps	072	11	7	4	8	12	5	10
Pertussis (Whooping Cough)	033	5	6	1	4	1		2
Poliomyelitis (acute)	045							
Rabies in Animals	071	29	20	18	13	12	12	17
Rheumatic Fever (acute)	390						1	
Rubella (German Measles)	056	4	4	1	3	3	4	4
Rubeola (Measles)	055							
Salmonellosis(exc.typhoid fev.)	003	84	102	133	133	126	72	69
Shigellosis (Dysentery)	004	10	25	18	31	9	12	11
Tuberculosis	010-018	21	12	20	15	21	19	19
Viral Hepatitis:	070							
Type A		18	21	31	41	18	36	17
Type B		10	13	17	16	13	18	9
Non: A & B		2	4		1	3	2	4
Unspec.		1	3	1	2		2	2

*Rates per 100,000 population. Rates based on fewer than 20 cases are omitted because they are subject to large random fluctuations. The number "20" is arbitrary and is not set forth as a critical point distinguishing statistically reliable rates.

THE VITAL STATISTICS REGISTRATION SYSTEM IN WISCONSIN

RECORD	PERSONS RESPONSIBLE FOR COMPLETING RECORDS	PERSONS RESPONSIBLE FOR FILING RECORD WITH LOCAL REGISTRAR	LOCAL REGISTRARS- TRANSMIT RECORDS TO STATE
Birth Certificate	Attending physician, midwife, or other medical professional. When none of these in attendance, then a parent, householder or owner of premises, manager or superintendant of a public or private institution in which birth occurred.	Attending physician or other person who prepared the record.	Register of Deeds of each county is primary registration office for villages and towns. Primary registration office for cities is the Health Officer who is authorized to appoint the county register of deeds as deputy for filing all certificates.
Report of Fetal Death	Funeral Director or any person designated by one of the parents to assume responsibility for disposition of the remains.	Funeral Director or person designated by one of the parents.	Same as above.
Death Certificate	Funeral Director for completion of personal and statistical information. Physician, Coroner or Medical Examiner for causes of death, interval between onset and death, day and hour of death, certification.	Funeral Director prior to any disposition of the body and for obtaining a burial permit.	Same as above.
	When no funeral director is employed, then the person who prepares the body for burial and conducts the funeral of any member of the immediate family.	Person designated to perform the burial and conduct the funeral.	Same as above.
Marriage Certificate	Persons applying for marriage license and the county clerk who issues the license.	Minister, priest, judge, family court commissioner, court commissioner or the 2 parties themselves, after completion of the certification and signing by 2 competent adult witnesses.	Same as above.
Certificate of Divorce	Attorney for the petitioner, family court commissioner and clerk of court.	Not filed locally. (Some clerks of court retain a photo copy for file but this is not required by statute).	Clerk of Court.